DYSLEXIA AT SECOND LEVEL: FACTSHEETS FOR TEACHERS

These factsheets have been published to give teachers in second level schools in Ireland clear and concise information on dyslexia, how it affects students and how schools and teachers can help. With dyslexia affecting approximately one in ten people, there are many thousands of students with dyslexia in Irish second level schools. For some, the difficulties may be so severe they are receiving extra support through additional teaching. The majority depend on help from mainstream teachers.

The factsheets are a starting point. Factsheet 18 on resources gives information about books, teaching resources and websites which deal with the topic in detail. In particular several books and websites are highlighted that could be considered essential for staff in all second level schools.

How to use the pack
Some factsheets are relevant for all staff. These include:

- What is dyslexia?
- Understanding the educational psychological assessment.
- General classroom strategies.
- Developing reading and comprehension skills across the curriculum.
- Developing vocabulary and writing skills across the curriculum.
- Making information more accessible.
- Resources.

Many of the teaching approaches and strategies that support the student with dyslexia are also of benefit to the general student body. N. MacKay says in the book Dyslexia, Successful Inclusion in the Secondary School: ‘Dyslexia-friendly policies also enable schools become more effective and improves performance of all pupils. This is the power of the dyslexia friendly approach that changes made on behalf of dyslexic pupils can benefit all’. The British Dyslexia Association in the Dyslexia Friendly Schools – Good Practice Guide says ‘Dyslexia-friendly teaching techniques will be helpful to all students, while the students with dyslexia may not be able to learn effectively without them’.

Other factsheets are more specific such as those on educational choices, maths and languages. It is hoped that school management would give copies of the relevant factsheets to all teachers depending on the subjects they teach.

Factsheet 16 has tips for parents on how they can support the student. Factsheet 17 is for students on study techniques and online resources.

The Factsheets are available for free download on the websites www.dyslexiacourses.ie and www.dyslexia.ie and are updated on an annual basis.

The factsheets were written in 2013 by Mary Ball, an educational psychologist who has worked with Dyslexia Association of Ireland (DAI) for many years and Wyn McCormack, a guidance counsellor and special educational needs teacher.

Wyn, together with Deirdre McElroy, a former educational psychologist who worked with NEPS, offer courses on dyslexia to teachers as well as information nights for parents on how they can support the student. They also offer study workshops for senior cycle students. Full details are available at www.dyslexiacourses.ie.

The Dyslexia Association of Ireland provides courses for teachers, adults with dyslexia and parents at venues throughout Ireland as well as seminars on assistive technology. Details of their courses are available on the website www.dyslexia.ie.

For teachers interested in further qualifications there is Master of Education in Specific Learning Difficulties (Dyslexia) available in St. Patrick’s College, Dublin City University. It is part-time two-year level 9 programme.
FACTSHEETS ON DYSLEXIA FOR SECOND LEVEL SCHOOLS

Factsheet 1 What is Dyslexia?
Factsheet 2 Screening and Identification
Factsheet 3 Understanding the educational psychological assessment report
Factsheet 4 The assessment report and its implications for learning
Factsheet 5 Supports for students with dyslexia in Irish Education
Factsheet 6 The dyslexia friendly school
Factsheet 7 General classroom strategies for mainstream teachers
Factsheet 8 Developing reading and comprehension skills across the curriculum
Factsheet 9 Developing vocabulary and writing skills across the curriculum
Factsheet 10 Mathematics: dyslexia and dyscalculia
Factsheet 11 Teaching mathematics to students with dyslexia and/or dyscalculia
Factsheet 12 Teaching languages to students with dyslexia
Factsheet 13 Educational choices for students with dyslexia
Factsheet 14 Making information accessible, the dyslexia-friendly style guide
Factsheet 15 Computers and assistive technology
Factsheet 16 How parents can support the student with dyslexia
Factsheet 17 Study tips for the student with dyslexia including a section on resources
Factsheet 18 Useful resources for teachers

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Updated Wyn McCormack 2014, 2015, 2016, 2017, 2018
Downloadable at www.dyslexiacourses.ie and www.dyslexia.ie.
FACTSHEET 1: WHAT IS DYSLEXIA?

Dyslexia is a neurological condition that makes it difficult to acquire the skills of reading and writing. Characteristic features include difficulties in phonological awareness, verbal memory and verbal processing speed. Phonological awareness is the ability to notice, think about and manipulate individual sounds or phonemes and syllables within words.

Key points on dyslexia
- Research has identified genetic components in dyslexia.
- Dyslexia occurs across a range of intellectual abilities.
- It affects about one in ten persons.
- It occurs along a continuum. One student’s dyslexia may be very severe while another’s may be quite mild. No two students are likely to have the same profile.
- Dyslexic difficulties do not affect all tasks. An individual may be very poor at reading but may excel at engineering, maths or art. Not all aspects of reading and writing will be equally weak.
- Dyslexia may co-occur with other specific learning difficulties such as dyspraxia, dyscalculia, attention deficit disorder, Asperger’s syndrome or speech and language impairment.

Identification

An educational psychological assessment carried out by an educational psychologist is needed for a definitive identification of dyslexia. The assessment may include testing of cognitive abilities as well as literacy and numeracy skills. The psychologist also needs relevant background information such as developmental history and other interventions from parents, schools, colleges or any other relevant sources.

What are the core features that identify dyslexia?
- Most researchers agree that the core difficulty in dyslexia is caused by a phonological deficit. This results in students having difficulty in identifying the separate sounds in a word and later not being able to match sounds with patterns of spelling. They may not process the sound accurately, may become confused trying to sequence the sounds in the correct order or may not remember the common letter patterns that sound out/spell out syllables. They may end up guessing at written words.
- It takes learners with dyslexia longer than average to acquire a knowledge of letter-sound patterns to the point that they can recognize them automatically.
- They may also have difficulty with word recall and with the speed of word recognition. Thus, while it appears that the core difficulty is at the level of phonological awareness, individuals with dyslexia often show difficulties with working memory, becoming automatic in tasks and rapid naming.
- They may have difficulty with co-ordination, fine motor movement, time management, organization/sequencing, space, direction and laterality.

Students with dyslexia may experience difficulties with some of the following:
- Reading inaccurately, losing their place on the page, becoming stressed when reading aloud.
- Learning and memorizing and in particular, rote learning such as learning poetry, maths tables and formulae.
- Copying from the board or taking notes from dictation.
- Spelling.
- Understanding complex instructions.
- Planning and writing essays.
- Written answers are too short and points are underdeveloped.
- Handwriting may be disjointed, illegible at times or have many cross-outs.
- Finishing work on time.
- Confusion about places, times and dates leading to problems of organization.
- Wide discrepancy between oral and written work.

How does dyslexia affect the student’s self-esteem?

Students, who see dyslexia as being a part of who they are and whose family, friends and educators are supportive, encouraging and accommodating,
will develop confidence, a strong self-image and will have the ability to solve and circumvent the challenges that dyslexia presents. As with all students, with or without dyslexia, success at a task is the most effective guarantee of continued achievement because it generates a confidence that enables students to believe in their ability to learn.

Students, who have to struggle too much and who feel that their difficulties are not understood, may be at risk of giving up, particularly in secondary school. Because literacy is such a major accomplishment in modern culture and essential for navigating school, failure to become literate can have significant negative effect on self-esteem. The result can be acting out, evasion, depression and risk of being bullied or of being a bully.

**How are these risks avoided?**

Dyslexia is life-long but can be greatly helped by appropriate interventions which teach students strategies for dealing with its effects through knowing their strengths as well as their weaknesses and using their abilities to problem-solve around the difficulties. The onus is not all on the student. Schools and teachers need to make the environment learning-friendly for these students.
FACTSHEET 2: SCREENING AND IDENTIFICATION

Concerns about a student may arise from the results of standardised tests or from observations and/or concerns from parents, teachers or the students themselves.

The results of standardised tests such as those used at entrance assessment or prior to senior cycle may show an uneven profile of ability. The Cognitive Abilities Test (CAT) is used in many schools for entrance assessment. It tests verbal, numeric and non-verbal reasoning. A significantly lower result in verbal reasoning in relation to the other two, and in particular the non-verbal reasoning, should prompt some further investigation. The Differential Aptitude Tests (DATS), which are often used prior to senior cycle, also have verbal, numeric and abstract reasoning sections where such a pattern also may be apparent. Is there a routine analysis of tests results such as CAT or DATS to check if such anomalies are present?

Concerns often arise from reports and observations from parents, teachers or even students themselves. Parents often voice concerns about particular difficulties a student may have. Teachers, noticing inconsistencies in the work of students, may suggest further investigation. Students may ask for help in understanding the unpredictability in their own performance.

If concerns arise, what is the next step?
Is there a clearly defined referral system in the school where such concerns can be addressed? Does the referral go to the Guidance Counsellor or to the Special Education Teacher? As a first step the teacher investigating such concerns could use the list of indicators published by the Department of Education and Skills (DES) to guide their action.

There are four lists of indicators, one of which is for students of 12 years plus. This is a checklist only. It is not likely that any student will have all the indicators on the list.

Indicators of a possible learning difficulty arising from dyslexia (ages 12 Years+)

- Still reading slowly and without fluency, with many inaccuracies.
- Misreads words (e.g. hysterical for historical) or information.
- Difficulty modifying reading rate.
- An inadequate store of knowledge due to lack of reading experience.
- Continues to experience serious spelling difficulties.
- Slow, dysfluent and/or illegible handwriting.
- Better oral skills than written skills.
- Difficulty planning, sequencing and organising written text.
- Difficulty with written syntax or punctuation.
- Difficulty skimming, scanning and/or proofreading written text.
- Trouble summarising or outlining.
- Problems in taking notes and outlining from the board.
- Procrastinates and/or avoids reading and writing tasks.
- Does not complete assignments or class work or does not hand them in.
- Slow in answering questions, especially open-ended ones.
- Poor memorisation skills.
- Still mispronounces or misuses some words.
- Problems recalling the names of some words or objects.
- Poor planning and organisation skills.
- Poor time management skills.
- More difficulty in language-based subjects (e.g. English, Irish, history) than in non-language based subjects (e.g. mathematics, technical graphics).
- Lacks self-confidence and has poor self-image.

Dyslexia screening tests
Further investigation by the teacher could include the use of dyslexia screening tests which are instruments used to identify the possible cause of the reading delay. Two appropriate for use at second level are:

Lass 11 – 15, developed by Lucid Research, is a computer programme which is a series of assessments in the form of games that test literacy, reasoning and cognitive skills including memory and phonics in the age range 11 - 15.
years. Any difficulties of a dyslexic nature such as those caused by underlying problems in phonology or memory can be easily identified. Also available from Lucid are the following: LADS which is a computerised screening test for identifying dyslexia in those aged 16+. LADS Plus (valid for the age of 15+) is a version of LADS developed to provide improved screening accuracy in wider populations that may include individuals who have non-standard educational backgrounds, low general ability, and/or poor English language skills. Lucid Rapid takes 15 minutes and is the solution for quick group screening for dyslexia in the 4 to 15 age range. It is calibrated to maximise accuracy in detection of dyslexia and prevent dyslexic children ‘slipping through the net’. Spot your potential, is an on-line screener for those over 15. More information is available at www.gl-assessment.ie.

The Dyslexia Screening Test – Secondary is used to identify students who are still experiencing difficulties at second level. Subtests include rapid naming, verbal fluency, non-verbal reasoning, reading and spelling. It takes about 30 minutes to administer on an individual basis. More information is available at www.pearsonclinical.com.

Both are included on the DES list of formal assessment instruments (including tests) approved for use for guidance and/or learning support in post-primary schools. See DES Circular 0034/2015.

Referral for an educational psychological assessment
The screening test and/or the checklist may strengthen the suspicion that the student may have dyslexia. They also help when discussing possible referral for an assessment with parents. An assessment, which is carried out by an educational psychologist, is needed for a definitive identification of dyslexia. This involves a test of cognitive ability (possibly including such abilities as range of vocabulary, non-verbal reasoning, visual-spatial abilities and working memory) as well as in-depth assessment of reading and writing skills.

This form of assessment is still required when applying for some supports such as language exemptions. It may accompany applications for RACE (Reasonable Accommodations in Examinations). DARE (Disability Access Route to Education) accepts an assessment of any age since 2016. Prior to that, it had to be within the previous three years.

However, there is some debate at the present time as to whether such an assessment of IQ (cognitive testing) is necessary as part of an assessment to identify dyslexia. For example, in April 2015 the Dyslexia Association of Ireland (DAI) introduced a new policy that it will only conduct a full IQ test with the client if the educational psychologist deems it necessary and in the best interests of the client.

National Educational Psychological Service (NEPS) provides a number of assessments to schools. Otherwise parents may opt for a private assessment. A list of practising psychologists may be obtained from the Psychological Society of Ireland www.psihq.ie. There is usually a waiting list for private assessments. Private assessments can be costly. However it is possible to claim tax back on the cost on the MED. 1 form.

Is an educational psychological assessment necessary?
Changes to both RACE and the system to allocate resources hours in 2016/2017 have made it easier to access supports without an assessment.

An assessment is no longer necessary for RACE where there is no need to have tests of cognitive ability from 2016 onwards. All the testing can be carried out by the school.

The Special Education Teaching allocation introduced in September 2017 in Circular No 0014/2017 provides a single unified allocation system for special education teaching needs to each school, based on that school’s educational profile. There is no need for an assessment to access additional teaching hours. Schools will no longer have to make individual applications for resources. It means each school decides how much support a child will receive.

However the student will still need an assessment to access other supports such as language exemptions, digital copies of textbooks from some publishers or DARE where an assessment report of any age is still required.

The assessment is also a very useful tool for parents and teachers as it provides a profile of learning strengths and weaknesses as well as guidance on the most appropriate teaching strategies and educational choices for the student.
FACT SHEET 3: UNDERSTANDING THE EDUCATIONAL PSYCHOLOGICAL ASSESSMENT REPORT

The educational psychological assessment is a means of assessing how one learns. It is most frequently used to identify a student’s learning difficulty. However the information gained should be used as the basis for individual interventions and programmes of learning.

What does an assessment involve?
An assessment typically consists of a test of cognitive ability and tests of attainments in literacy and numeracy.

Cognitive ability means how the brain takes in, retains and makes use of information. The speed with which information is processed is also assessed. There are a number of ability tests used by psychologists. Currently the test most frequently used is the Wechsler Intelligence Scale for Children, version 5 known as the WISC-V. The adult version is known as the WAIS. Other tests sometimes used include the British Ability Scales (BAS), the Woodcock Johnson Test of Cognitive Ability and the Stanford Binet Intelligence Scales.

Attainments tests refer to tests of reading, spelling and numeracy. The results are derived from standardised tests of word recognition, reading comprehension, spelling, word attack skills, arithmetical knowledge and understanding of mathematical concepts.

From April 2015 the policy of the Dyslexia Association of Ireland (DAI) is that the assessment will cover a range of literacy skills including reading of single words (both real and non-words), phonological awareness, reading fluency/speed, reading accuracy, comprehension and spelling. Related cognitive skills including memory, rapid naming, and other language skills are also investigated. Cognitive testing will be included if the educational psychologist deems it necessary and in the best interests of the client.

What information is in the report?
The report contains background information, observations on how a student approaches a task during assessment, tests results, descriptions of what the tests mean and where the scores place the student in relation to other students of similar age. The findings are summarised, a conclusion is stated and recommendations for future action are given. All sections are important to read to understand the student’s learning profile.

Is there a way to get relevant information quickly, subject to a detailed study of the report later?
Yes. It can be done by:
- Checking the child’s background history especially if earlier assessments and identification of difficulties have taken place.
- Looking at the table of results.
- Reading the conclusions drawn by the psychologist.
- Examining the recommendations.

Key elements in planning teaching interventions are the strengths and weaknesses on both the cognitive and the attainment tests.

Understanding scores
Scores used in the assessment may be given as composite/standard scores, percentiles or scaled scores.

Composite/standard scores are based on the Normal Distribution Curve and range from approximately 70 to 130+. A score of 100 is the mid-point of the curve. 50% of the population will score between 90 and 109. This is designated as the ‘Average’ range.

Percentile scores range from 1 to 99. They calculate where, in a typical group of 100 students of the same age, the student would be placed in terms of achievement on a particular task, group of tasks and ability. Thus the student placed at the 90th percentile achieved as well or better than 90 students out of the 100.

The table below sets out the standard score range, percentiles, the percentage of the population who would achieve such scores and the descriptive categories relating to these scores.
Composite/Standard Score | Percentile Score | % of population | Descriptive Range | Can a student’s profile change?
---|---|---|---|---
130 and above | 98-99 | 2% | Exceptionally high, very superior | Yes. As a student learns to use as many different abilities as possible to problem-solve, one may expect that a profile will change. Work that is presented and learned through multiple channels is more likely to be effective than work presented or learned through one channel only. In addition, structure, repetition and making associations are strategies that need to be taught. Constant monitoring by the teacher enables students to stretch beyond their present level of attainment.
120-129 | 91-97 | 7% | High, superior | 110-119 | 75-90 | 16% | High Average, above average | 90-109 | 25-74 | 50% | Average | 80-89 | 9-24 | 16% | Low Average | 70-79 | 3-8 | 7% | Low, | Below 70 | 1-2 | 2% | Exceptionally low | 90-109
Scaled scores may also be quoted in the report. They use a scale of 1 to 19. The mid-point is 10. The average range is 8-12. Any score above 12 is above average and the closer the score is to 19 indicates increasing ability. Any score below 8 is below average and the closer the score is to 1 indicates increasing difficulty.

**Attainment Testing in Literacy and Numeracy**

The results in the attainment testing section of the report may be given as standard scores and/or percentiles. Sometimes age equivalents such as a reading or spelling age for the student are given. Reading and spelling ages are not helpful for the secondary school student.

Many students with dyslexia have a wide discrepancy between their levels of numeracy and literacy and their cognitive ability. A discrepancy may also be apparent between their ability to read and write in comparison to their peers. It can be relatively easy to see where they need support. However, some students with dyslexia will get average scores on their literacy attainments. It is a mistake to assume that they are coping as tests do not assess every aspect of their learning.

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FACTSHEET 4: THE ASSESSMENT REPORT AND ITS IMPLICATIONS FOR LEARNING

Traditionally the assessment includes testing of both cognitive abilities and literacy /numeracy skills. The test which has been most frequently used for cognitive testing is the Wechsler Intelligence Scale for Children, version 5 and referred to as the WISC-V.

WISC-V recognises there are distinct abilities in cognitive functioning that can be grouped together and measured. It generates a Full Scale IQ (formerly known as an intelligence quotient or IQ score) that represents a child’s general intellectual ability. It also provides five primary index scores: Verbal Comprehension Index, Visual Spatial Index, Fluid Reasoning Index, Working Memory Index, and Processing Speed Index. These indices represent a child’s abilities in discrete cognitive domains. The score for each of the five headings is based on the aggregate of scores from a number of subtests. For example the score for processing speed is based on three sub-tests which are Coding, Symbol Search and Cancellation.

Terms used in WISC-V results

- The General Ability Index (GAI) score is used instead of the IQ score when there is an exceptionally large discrepancy between the highest and lowest Index scores. The GAI provides an estimate of intellectual ability that is less reliant on Working Memory and Processing Speed than the Full Scale IQ.
- The confidence interval means that it is likely that the candidate’s real ability is best described as lying between the two scores given, rather than being described by a single score.

An example of a WISC-V summary sheet

An example of the summary sheet showing the profile of results of the WISC-V for a student with dyslexia is shown on the next page.

Key points in this profile are:

- The overall ability is in the middle of the average range (composite score CS 100).
- Processing Speed (CS 83) and Working Memory (CS 21) are particularly weak.
- Verbal comprehension (CS 77) and Visual Spatial (CS 87) are High Average.
- Fluid Reasoning (CS 97) is in the average range.

Possible classroom difficulties

Poor working memory and processing speed may present in some of the following ways:

- Forgetting verbal instructions.
- Difficulties with rote learning, mental arithmetic and memorising tables.

Possible interventions

The profile indicates strengths in verbal comprehension and visual spatial skills. The student should use these strengths to overcome the weakness in working memory. Strategies that would help include:

- Mindmaps, visual planners and organisers.
- Making clear notes using colour, numbering headings and diagrams.
- Use of homework journal to help with organisation. Colour coding files for notes.
- Using a single diary for all activities.
- Reducing rote learning by ensuring material to be learnt is understood.

Maths Related Processes in WISC-V

Difficulties in maths can result from various cognitive processes which are measured in the WISC-V:

- Attention
- Visual Spatial Processing
- Working Memory
- Language Comprehension
- Executive Functions

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An example of a WISC-V summary sheet for a student with dyslexia

<table>
<thead>
<tr>
<th>Subtest Name</th>
<th>Sum of Scaled Scores</th>
<th>Composite Score</th>
<th>Percentile</th>
<th>Qualitative Description</th>
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<tbody>
<tr>
<td>Verbal Comprehension VCI</td>
<td>24</td>
<td>111</td>
<td>77</td>
<td>High Average</td>
</tr>
<tr>
<td>Visual Spatial VSI</td>
<td>26</td>
<td>117</td>
<td>87</td>
<td>High Average</td>
</tr>
<tr>
<td>Fluid Reasoning FRI</td>
<td>19</td>
<td>97</td>
<td>42</td>
<td>Average</td>
</tr>
<tr>
<td>Working Memory WMI</td>
<td>16</td>
<td>88</td>
<td>21</td>
<td>Low Average</td>
</tr>
<tr>
<td>Processing Speed</td>
<td>14</td>
<td>83</td>
<td>13</td>
<td>Low Average</td>
</tr>
<tr>
<td>Full Scale IQ FSIQ</td>
<td>70</td>
<td>100</td>
<td>50</td>
<td>Average</td>
</tr>
</tbody>
</table>

### Sub Score Summary

<table>
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<tr>
<th>Subtest Name</th>
<th>Total raw score</th>
<th>Scaled Score</th>
<th>Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verbal Comprehension</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Similarities SI</td>
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<td>13</td>
<td>84</td>
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<tr>
<td>Vocabulary VC</td>
<td>21</td>
<td>11</td>
<td>63</td>
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<tr>
<td>(Information) IN</td>
<td>15</td>
<td>10</td>
<td>50</td>
</tr>
<tr>
<td>(Comprehension) CO</td>
<td>19</td>
<td>14</td>
<td>91</td>
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<tr>
<td>Visual Spatial</td>
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<tr>
<td>Block Design BD</td>
<td>30</td>
<td>13</td>
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<tr>
<td>Visual Puzzles VP</td>
<td>16</td>
<td>13</td>
<td>84</td>
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<tr>
<td>Fluid Reasoning</td>
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<td>Matrix Reasoning MR</td>
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<td>Figure Weights FW</td>
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<tr>
<td>(Picture Concepts) PC</td>
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<td>12</td>
<td>75</td>
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<td>(Arithmetic) AR</td>
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<td>Working Memory</td>
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<td>Digit Span DS</td>
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<td>Picture Span PS</td>
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<td>25</td>
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<tr>
<td>(Cancellation) CA</td>
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<td>8</td>
<td>25</td>
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</table>

There are 10 subtests and six additional ones which may be used. These are in brackets.
FACTSHEET 5: SUPPORTS FOR STUDENTS WITH DYSLEXIA IN IRISH EDUCATION

The key supports for students with dyslexia in Irish education include extra teaching support, language exemptions, RACE (Reasonable Accommodations in Certificate Examinations), DARE (Disability Access Route to Education) which is the supplementary admissions scheme for entry to CAO courses and financial assistance for the purchase of equipment or the cost of assessment.

Extra teaching support
The special education teaching allocation introduced in September 2017 in Circular No 0014/2017 provides a single unified allocation system for special education teaching needs to each school, based on that school’s educational profile. This allocation allows schools to provide special education teaching support to all students who require such support.

It is the school who will manage and deploy the special education teaching support allocated to the school.

In the case of students who need additional teaching support, the classroom teacher will be supported by special education teachers. This support can be provided by team teaching, small group teaching and, where necessary, individualised teaching to address specific learning needs.


Language exemption: Irish
Students, who have a diagnosed specific learning difficulty including dyslexia, may be granted an exemption from the study of Irish, subject to specific criteria. The educational psychological assessment should show that student has average or above average cognitive ability (a standard score of 90 or 25th percentile upwards) and is achieving at or below the 10th percentile on a standardised test of literacy.

The parents make a written application to the school with a copy of the educational psychological assessment (which must be less than two years old) which recommends the student should be exempt because the criteria have been met. The school issues the certificate of exemption and informs the Department of Education and Skills (DES). An exemption granted for student at primary school is recognised at post primary level and for the entry to the National University of Ireland (NUI) colleges.

Language exemption: National University of Ireland (NUI) Irish and third language requirement
The study of a third language is not compulsory at post primary level. However the entry requirements for NUI state that a student must pass six subjects in the Leaving Certificate (two at higher level) and that English, Irish and a third language must be included. NUI recognises the Department of Education and Skills (DES) exemption from Irish. Students with the Irish exemption are eligible for an exemption from the Irish and 3rd language requirements.

If a student does not have a DES exemption from Irish, an application can be made to NUI for an exemption from the Irish and/or the third language requirement. The student needs an educational psychological assessment certifying that there is a specific learning difficulty present. This should be no more than 3 years old. Literacy attainment should be at or below the 10th percentile (standard score 81) in two literacy abilities and be significantly lower than might be expected from the student’s cognitive ability. Application forms are available at www.nui.ie/college/entry-requirements.asp.

Language exemptions: Trinity College and University of Limerick
Both these colleges have a two language entry requirement. Students with dyslexia can apply for an exemption from this requirement by making a direct application to the college.

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It is the responsibility of the student to ensure the CAO is informed of the existence of these language exemptions. If they do not, they risk losing the offer a place in college.

**RACE (Reasonable Accommodation in Certificate Examinations)**

Reasonable accommodation describes the various supports provided for students in the Junior and Leaving Certificate exams. These include:

- Help with reading either with an individual reader or reading assistant.
- Use of the Exam Reader Pen. See Factsheet 15.
- Use of tape recorder.
- Use of a computer/word processor.
- A scribe. When applying for a scribe, reasons must be provided why the student cannot use a computer or tape.
- A waiver from the spelling and grammar elements of the exam in languages.

An explanatory note stating that accommodations were in place for the exam is attached to the statement of results.

Major changes took place in the RACE scheme in 2016. The key changes are:

1. Accommodations that were provided at Junior Certificate will be reactivated at Leaving Certificate subject to confirmation by the school of an identified and continuing need.
2. The category of Specific Learning Difficulty is broadened to that of Learning Difficulty. This means there is no need to provide cognitive scores such as those in a psychological assessment when applying. Eligibility will be based on the level of need.
3. Shared examination centres will be used where possible.

**The Application Process for Leaving Certificate**

The form RA1 is used for students who want to have the same accommodations carried over from the Junior Certificate. On the form the school will confirm that the need that led to the granting of supports still persists. The SEC (State Examinations Commission) considers the school authority’s judgement as the appropriate evidence that these supports are still required.

The form RA2 is for students who did not have accommodations at Junior Certificate or who are seeking to have different or additional accommodations.

The school should assess eligibility using the criteria set out by SEC. The school is required to retain all evidence used in this assessment (test results, samples of work used to calculate error rates, medical and other reports).

Both the RA1 and the RA2 have to be submitted by the closing date set. If not, the late application process should be used.

**The Application Process for Junior Certificate**

Since the accommodations for Junior Certificate can be reactivated at Leaving Certificate level, the SEC emphasises that schools must be sure that each candidate is eligible for RACE and that the accommodation recommended is required for the student to access the examination. The school should gather and retain appropriate evidence of need including results of testing, samples of work with error rates, medical and other reports etc.

**Eligibility Criteria for RACE for students with dyslexia and other learning difficulties**

- There is no need to have tests of cognitive ability from 2016 onwards. So an educational psychological assessment is not required for the RACE process.
- All the testing can be carried out by the school.
- DES Circular 0034/2015 gives guidance on appropriate standardised tests to be used.
- Results of any attainment tests must be obtained with 12 months prior to the date of application.
- The required error rates in reading and spelling may only be obtained from assessments carried out by the school. Error rates from non-school sources must not be allowed to override the school’s count of error rates.
- All records of the evidence used to assess eligibility must be available to SEC during and following the application process.

The SEC sets out very detailed criteria for each accommodation which can be found at [www.examinations.ie/schools/circulars/reasonable-accommodations/](http://www.examinations.ie/schools/circulars/reasonable-accommodations/). The tests may be of handwriting speed, word reading, spelling, grammar, punctuation depending on the accommodation being sought. A standard score of 85+ is not likely to be eligible. A standard score of 85 is the equivalent of the 16th percentile.
If the student needs accommodations in state exams, it follows that they benefit from receiving similar accommodations in house exams.

DARE (Disability Access Route to Education)
DARE [www.accesscollege.ie](http://www.accesscollege.ie) is the third level alternative admissions scheme for school-leavers whose disabilities have had a negative impact on their second level education. Students may be admitted on their course of choice with lower Leaving Certificate points than those set by the CAO. The reduction in points for DARE places can vary every year and is dependent on a number of factors, such as:
- The number of places on the course
- The number of reserved DARE places on the course
- The number of DARE eligible applicants competing for these reserved places.

Colleges use different ways to allocate places. Information on this and on the number of DARE places of individual courses in a college is available under the tab participating colleges at [www.accesscollege.ie/dare](http://www.accesscollege.ie/dare).

Priority in the DARE system will be given to two groups of applicants. One group are those students who qualify under both DARE and HEAR. HEAR is for socio-economic disadvantage. The second group are those DARE applicants who have physical and sensory disabilities.

The application has three stages. Firstly the student applies to the CAO by February 1st. The student then completes a Supplementary Information Form (SIF) by March 1st. By April 1st the student should ensure that Educational Impact Statement (EIS) and Evidence of Disability are returned to the CAO.

Evidence of Disability for students with dyslexia is an educational psychological assessment of any age that clearly states the applicant has a Specific Learning Difficulty. The criterion that the General Ability had to be within or higher than the average range no longer applies.

The Educational Impact Statement (EIS) is completed by the school. The statement should be signed by the School Principal or Deputy Principal and have the school stamp. There are six indicators on the Statement. Students with dyslexia must meet Indicator 6 and at least one other indicator. The indicators are:

1. Intervention and support
2. Attendance and disruption
3. School experience and well-being
4. Learning and exam results
5. Other educational impact
6. Attainment scores in 2 literacy scores at or below 10th percentile or 81 Standard Score. This testing must be carried out within the two years prior to the DARE application. These attainment scores can be from one (or a combination) of the following sources:
   1) Scores from school-based attainment testing.
   2) Scores from attainment tests carried out by a psychologist.

If the student does not qualify for DARE, they are still eligible for help while at college and should contact the Access/Disability Officer of the college they will be attending.

Financial Assistance
VAT can be claimed back on the purchase of computers/assistive technology for home/personal use using Form VAT 61A from the VAT Repayments Section.

It is possible to claim tax back on the cost of a private assessment on the MED 1 form which is available from the Revenue Commissioners.
FACTSHEET 6: THE DYSLEXIA FRIENDLY SCHOOL

There are many ways in which schools can support the student with dyslexia. Some may be whole-school policies on topics such as the readability of textbooks, the use of a dyslexia-friendly style for handouts and exam papers or ensuring that teachers are aware of the learning difficulties of any student whom they teach. The great advantage of such policies is that they benefit all students. The British Dyslexia Association has published The Dyslexia Friendly School – Good Practice Guide. The abridged version is available for download at www.bdadyslexia.org.uk/common/ckeditor/filemanager/userfiles/Educator/Resources/dfs-gpg-abridged.pdf. It contains ideas, resources, checklists and questionnaires, all aimed at making schools more dyslexia-friendly.

N. MacKay says the following in the book Dyslexia, Successful Inclusion in the Secondary School.

‘Dyslexia-friendly policies also enable schools become more effective and improves performance of all pupils. This is the power of the dyslexia friendly approach that changes made on behalf of dyslexic pupils can benefit all.’

N. MacKay

School organisation
Which member of staff is responsible for providing support for the student with dyslexia? Who should teachers go to get help if they have concerns that a student may have a learning difficulty?

Circular No 0014/2017 on the Special Education Teaching Allocation makes the following points:

• The classroom teacher has primary responsibility for educating all the students in his/her class including students with SEN.

• Schools should establish and maintain a core team of teachers for special educational needs who should have the necessary experience and ongoing access to professional development to support students.

Some students with dyslexia, while their scores may not be low enough to access additional teaching support, may need help with option choice, study skills, exam accommodations or DARE applications. There needs to be a school policy where it is clear whom they can approach for help.

Subject choice
• Is there support for students and their parents when deciding on the most appropriate options to choose in first year and for senior cycle? Due to the uneven pattern of ability there are some subjects in which students with dyslexia may do well and others in which they will find difficult to make progress.

• Does the option structure allow for the study of a third language to be optional?

• The Department of Education and Skills does not require students to take a language other than English and Irish. Some students with dyslexia find the study of languages very difficult and will achieve better results in other subjects. Students who are exempt Irish due to dyslexia, will get the National University of Ireland (NUI) exemption from the entry requirement to have a third language. However since 2012 the eligibility criteria for the 3rd language exemption for students without an Irish exemption state that the student should be at or below the 10th percentile in two literacy areas. Many students with dyslexia have scores above these criteria. Parents need to be aware that they may be limiting college and
course choice at third level if the student does not do a language.

- If the student is exempt from the study of Irish, is it possible to arrange for another subject or activity to take place during this time? The provision of a subject is of particular benefit in senior cycle since a student who is exempt Irish could be reduced to taking six subjects in the Leaving Certificate. Given the competitive nature of the points system, this may prove to be a disadvantage.

**Class placement**

- Are standardised tests used for entrance assessment and class placement? Are the limitations of such tests appreciated by the school? The *Post-primary Guidelines on Inclusion* state 'standardised tests are often unsuitable for use with student with Special Educational Needs, because the language register inherent in many tests makes them inaccessible ...therefore caution should be exercised in using and interpreting the results.'

- If streaming is used for class placement, what is the most appropriate class to place the student with dyslexia who has average to above average ability but who might perform poorly on entrance assessment due to weaker verbal skills?

**Communication with staff**

- The *Report of the Task Force on Dyslexia* and the *Guidelines on Inclusion* state that mainstream teachers have the key responsibility for the progress of students in their class with special education teachers assuming supporting roles. Are all teachers informed of a student’s difficulties? Information could include a profile of the student’s strengths/weaknesses and suggestions about effective teaching strategies based on the assessment.

- Such information is highly confidential and there should be a policy and procedures for keeping it safe.

- Any teacher who has contact with the student also needs such information. These include the principal, deputy principal, year head, tutors, guidance counsellor and teachers involved in extra-curricular activities.

- Has in-service training being provided for the whole staff on the topic of learning difficulties including dyslexia? Such training may be available from Special Education Support Service www.sess.ie, or Dyslexia Courses Ireland www.dyslexiacourses.ie. Are teachers informed of the one day courses on dyslexia such as those provided by the Dyslexia Courses Ireland at central venues. There are also on-line courses on dyslexia provided by ICEP – Europe www.icepe.ie. There is Master of Education in Specific Learning Difficulties (Dyslexia) available in St. Patrick’s College, Drumcondra.

**Communication and teaching**

- For students with dyslexia, the ability to read and understand text can be affected by the way the text has been written and produced. The font style, type of paper and layout of the page can affect how easy it is to read handouts and exam papers. Factsheet 14 gives guidelines on how to improve readability of text and could become the basis for a whole-school policy. An example of this would be that the school decide all documents would use Comic Sans font with line and half spacing and size 14 font. The Factsheet also includes advice on accessing readability statistics in Microsoft Word.

- School policies which promote dyslexia-friendly teaching and learning strategies could be adopted such as:
  - Encouraging the use of multi-sensory teaching methods as much as possible.
  - Accepting alternative formats for homework such as typed work or mindmaps.
  - Don’t ask a student to read aloud without first checking the student is comfortable doing so.
  - Providing notes if the student has difficulty taking notes from the board or dictation.
  - The use of graphic organisers.
  - All teachers could use the same corrections symbols when correcting homework.

- Subject departments should consider readability levels when deciding on texts. An analysis of some commonly used texts books for the Junior Certificate using internationally recognised readability tests showed some with reading age equivalents of fifteen or sixteen. See Factsheet 14 for more on calculating readability statistics.

- The language departments could co-ordinate the teaching of aspects of grammar such as parts of speech, verb tenses or punctuation to happen at the same time which would reinforce the learning taking place.

- The *Understanding Dyslexia* CD/DVD published by the Department of Education and Skills provides a form which helps students analyse where they are having difficulty in class and enables them to ask teachers for help. This form is available under downloads at www.dyslexiacourses.ie.
FACTSHEET 7: GENERAL CLASSROOM STRATEGIES FOR MAINSTREAM TEACHERS

The Report of the Task Force on Dyslexia states that mainstream teachers have the major responsibility for the progress of each student in their classes including those who have learning difficulties arising from dyslexia. Special education teachers and other professionals have supporting roles. As a result the mainstream teacher needs to be familiar with a student’s profile of strengths and weaknesses as it may give guidance on the most appropriate strategies to help a student’s learning. There needs to be a system to impart such information to mainstream teachers on an on-going basis. However this is highly confidential information and must be held securely.

FAIRNESS
‘To successfully manage the inclusive classroom, teachers should re-examine the notion of what is ‘fair’. Fairness does not mean every student gets the same treatment but that every student gets what he or she needs.’

Understanding Dyslexia  Department of Education and Skills

Tips to help with communication
- Write clearly on the board giving plenty of time to take down information and homework tasks. Don’t write too much on the board, as a board with a lot of information is harder to read. Erase before more is written. Check the student has copied it correctly.
- Divide the board into segments: one for homework, one for new vocabulary, one for class work.
- Students with dyslexia can face huge difficulties getting homework tasks set by teachers into their homework journal. It may be incomplete or illegible. There are a number of computer programmes or Apps that allow the teacher to make homework accessible on-line. This can also include class notes and worksheets. The website www.classdojo.com offers such a service to schools. The apps Edmodo, Schoolcircle and Remind also offer similar services.
- The student, who has difficulty with sequences or who has to listen and then process information, may become confused unless instructions are kept simple. Break down the directions into simple steps. Repeat key points. It is helpful to give written notices of events.
- If students are slow in retrieving facts or words, give extra time for them to answer so they can get their thoughts together. They can spend time anxiously worrying about being asked questions rather than listening to the teacher. Have a private arrangement that they will only be asked a question in particular circumstances such as when the teacher approaches their desk.
- Talk to the student and ask what would help. Understanding Dyslexia DVD has a checklist which helps students to identify what supports might help. It is available as a download at www.dyslexiacourses.ie.

Tips on classroom organisation
- Have the student sit towards the front of the class.
- The notes of the student may be inaccurate, illegible or incomplete. Often the task of taking notes is so demanding and takes total concentration that the student is not listening and does not understand what is in the notes. Help them by showing how to take notes, giving them templates for notes, providing notes for them or photocopying the notes of another student. Homework Apps such as Edmodo, Classdojo, Schoolcircle and Remind can make teacher notes available on-line.
- Clear routines and directions make the classroom more secure. Put up classroom lists of the routine for the day or week. A calendar showing key dates for the term is useful. Have a wall chart with

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classroom rules. Wall charts of key terminology also help. Bookmarks with key symbols and vocabulary can help.

**Don’t’s**

- Minimise the use of cursive handwriting whether it is on the board, in notes or on exam papers. Students find it difficult to decipher. Teacher notes and test papers should be typed preferably in a dyslexia-friendly style (See Factsheet 14).
- When disciplining, think about the amount of written work given as a punishment as it can be far more demanding for a student with dyslexia.
- After explaining what the mistake/misbehaviour was and what the student can do to remedy the situation, ask them to repeat what has been said. This verbalisation can help the student process what is said and increases understanding.
- Don’t ask the student to read aloud in class unless it has been checked that the student is willing to do so.

**Teaching approaches**

- Foster self-esteem by giving genuine praise whenever possible and promoting activities that yield success.
- Multi-sensory teaching can help learning. If lessons include oral, written and visual elements, these provide more ‘hooks’ for the student to remember the content. Choosing texts which are available on DVD or tape can be helpful.
- Co-operative learning strategies which promote peer tutoring, active learning and discovery learning can help. The *Post-primary Guidelines on Inclusion* has a section on the topic. The Special Education Service [www.sess.ie](http://www.sess.ie) has an eLearning course and a DVD as well as resources on differentiation in the classroom.

**Homework and exams**

- Some students may answer off the point because they do not understand the question. The English Language Support Service [www.elsp.ie](http://www.elsp.ie) have worksheets and activities on the language used in exams. They need to be taught how questions are structured and the meanings of words used in questions.
- Use positive correction techniques when correcting. Not all mistakes need to be marked. Take one particular category of error and correct it. Comment positively on what was done well.

One method could be to correct with two stars for what was done well and one wish for what could be improved. N. MacKay in his book *Removing Dyslexia as a Barrier to Achievement* suggest the strategy of making points under the headings of *Tip, Success and Think* as a way to help students learn from homework corrections.
- Ensure they know how to enter homework and other commitments into the homework journal. They should have one diary for all commitments such as social life, sports, and school. This is a life skill which will help them when they leave school.
- Adapt class and homework goals when necessary. This may mean accepting shorter answers, typed homework or shortening lists of quotes or poetry to be learnt. Set a maximum amount of time to be spent on a task.
- Before an exam, students benefit from being given lists of key material to be revised, with sections of work allocated to particular weeks.
- Modify test formats to reduce the use of long written answers by using formats such as multiple choice, true and false questions, labelling diagrams and oral tests.
- Leave three lines between questions on an exam paper.
Reading and writing are essential skills across the curriculum. Students with dyslexia frequently underachieve owing to weaker verbal abilities. Dyslexia affects reading in different ways. Some students may have to decode the words they are reading and as a result cannot remember the content of what they have read. Others may read slowly and have to reread several times to get the meaning of the text, while some may misread words when tired or stressed. However, due to underlying ability, if they can find a logical approach and apply their learning strengths to the task, they can make rapid progress.

There are many ways mainstream teachers in different subject areas can help these skills develop. The suggestions below are only a starting point. For more, see resources listed in the Factsheet 18.

The National Behaviour Support Service has an extensive range of resources, worksheets, summary maps /organisers and classroom posters on comprehension and learning strategies for before, during and after reading in the publications and resources section of the website www.nbss.ie.

**Developing reading skills**

- The most effective way to develop reading skills is to read. The school could encourage this by having a library with books at different reading levels. The NBSS website has a comprehensive listing of such books called READ – Engaging students with high interest and low readability books.

- Parents should be encouraged to see the benefits of the student reading at home on a consistent basis. For weaker readers, introduce parents to the practice of paired reading. They should be encouraged to maintain reading throughout the summer as progress made in school can be lost over the holiday period. NEPS have a leaflet Shared/Paired Reading At Home. It can be accessed on the Resources and Publications Page of the NEPS platform on www.education.ie.

- Dyslexia Action has published a book Dive in – a book guide for the reluctant and dyslexic readers which gives guidance on books that might engage the reluctant reader as well as a guide for parents called Reading hints and tips for parents of reluctant and struggling readers. Website: www.dyslexiaaction.org.uk

- An active reading method such as the SQ3R, (Survey, Question, Read, Recite and Review) could be adopted as a whole school policy. The NBSS www.nbss.ie have a booklet on it. Once it has been explained, all teachers could ask students to use the method in their own subjects. Homework journals could include an article on SQ3R.

- Good readers retain a lot of what they read. Students with dyslexia, who may struggle with decoding the words, need to develop a way to make the information more real. Visualisation is a technique which turns the text into images making it easier to remember. See Cogan and Flecker’s strategies and worksheets on visualisation in their book Dyslexia in Secondary School.

- The Junior Certificate Schools Programme www.jcsp.ie has resources to support literacy development across the curriculum including keyword initiatives, reading challenges, classroom posters to promote reading and a teacher resource book. The site is being updated. In the meantime teachers can get the resources from www.becpublishing.com.

- Some students find the glare on white paper causes visual stress. www.abcschoolsupplies.ie provide aids to help including reading rulers, page overlays and tinted copies and notebooks.

- The increasing availability of textbooks as e-books where students can listen and see the words at the same time helps with understanding the text.

- For students who do not read fluently, the use of a scanning pen which reads the text aloud or through headphones is a useful aid. See www.scanningpens.co.uk.

- Some students may have poor skills in phonics. The book Toe by Toe could help. Also the game TRUGS could be helpful. TRUGS comes from Teach
Reading by Using Games. It is a system of sets of card games and follows a phonics structure so the children are learning through having fun and competition. It comes in 3 levels. The suggestion from a teacher using it is that second level would only need to buy level 3. It is available from www.otb.ie.

Developing reading skills in the classroom

- Bookmarks or rulers help them keep their eyes focused on the text when reading.
- When choosing textbooks consider the readability level of the text. There are several readability tests available such as the Flesch-Kincaid Grade Level Readability Test. Some Junior Certificate texts had a reading age of 15 when checked. Most students in first year would have difficulty accessing such content. Factsheet 14 has information on readability tests including how to use Microsoft Word to calculate readability statistics.
- Check if the student is willing to read aloud in class. Some are very conscious of poor reading skills and anxiety makes their reading worse.
- If it is necessary for the student to read aloud, discreetly let them know the previous day the section they will be asked to read, so they can prepare it.
- By introducing texts and giving cues about their content, teachers make them more accessible. If a science teacher shows that the chapter structure of the book divides the course into 3 sections of Biology, Physics and Chemistry, that key information is marked in bold print, that there is a revision section at the end of each chapter and how to use the index, it makes the book more approachable.

Comprehension and learning strategies

- When reading a chapter in a textbook, introduce the content, so the student becomes tuned in to the gist of the material and the keywords. This helps with comprehension.
- Effective summarising using summary maps, mindmaps and other graphic organisers helps the student to learn. The information is represented in a clear, logical manner, with key ideas highlighted. This helps with the recall of information and structuring written answers. The website www.pdst.ie/sites/default/files/Graphic%20Organiser%20Booklet.pdf has resources on many types of graphic organisers which can be used for different subjects.
- A note-taking strategy such as the Cornell method helps students to organise information. The page is divided into two columns. The left one is used for main ideas and key concepts. The right column is used for supporting detail.
- Show students how to file notes using strategies such as colour coded files for different subjects, numbering pages, putting a heading on each page and having an index in the front of the file.
- Some students with dyslexia may find it difficult to make their own notes. Teacher notes or revision books/notes give them access to the keypoints for learning.
- Reduce the amount to be learnt by rote learning such as shortening lists of quotations in higher level English.
- The Little Book is a way to get students to learn bits of information by teaching one another. Full instructions on creating and using Little Books are on the PDST website, www.pdst.ie/node/2833.
- Colour code questions in a comprehension text. An example could be that Question A is pink and Question B is blue. Then, when reading the text, use the same colours to indicate relevant material in the text for that question.
- The website www.worksheetworks.com has 100's of worksheets that can be adapted to whatever the teacher wants. It has materials for Maths, English, Geography and puzzles. It is possible to make up Word Searches. It has blank Graphic Organisers that can filled in as required.

Developing memory

Many students, when asked how they learn a topic, say ‘I read over the chapter’. The student with dyslexia must make the material ‘their own’ to get it into long term memory. Multi-sensory learning helps with the processing of the information. The more senses that are involved, the more likely the learning is to stick. Triple strength learning involves seeing, saying and hearing. Quadruple strength learning involves the addition of writing.

Therefore they should say, hear, see and write as much as possible. The student should talk, listen, debate, use lists of questions, draw timelines or mind-maps, visualise, create mnemonics, or make up cards with key facts. The hard work involved in the active transfer of information sharpens the
students’ understanding and it is a reliable route to successful learning. Once learnt, frequent revision of material is recommended.

The National Educational Psychological Service (NEPS) have produced handouts and tips for teachers and parents. They include a handout on Working Memory in the Classroom. It can be accessed on the Resources and Publications Page of the NEPS platform on www.education.ie.

There are some computer programmes that focus on developing memory.

**Memory Quest**  [www.edtech.ie/product/memory-quest-flex-special-education-1-year](http://www.edtech.ie/product/memory-quest-flex-special-education-1-year)  This programme provides working memory training. It has been developed based on recent scientific findings on training of cognitive skills. The programme is adaptive i.e. automatically adjust the difficulty level based on the performance of the trainee. Memory Quest have been produced with financial support from the Swedish National Agency for Special Needs Education and Schools.

**Dyslexia Quest:**  [www.nessy.com/uk/dyslexia-quest/](http://www.nessy.com/uk/dyslexia-quest/)  The games are designed to assess working memory, phonological awareness, processing speed, visual memory, auditory memory and sequencing skills. Dyslexia Quest has been developed, researched and tested at the Bristol Dyslexia Centre. The app is designed for a single player and does not support simultaneous multiple users. There are three age ranges: 7-10 years, 11-16 years and 17+.
FACTSHEET 9: DEVELOPING VOCABULARY AND WRITING SKILLS ACROSS THE CURRICULUM

A key difficulty for students with dyslexia is getting information down on paper. Teachers often say ‘Answers are too short’ or ‘Points are not developed’. There is a mismatch between oral and written ability. Their writing skills are not as automatic as they are for other students. Their writing is slower than their thinking, so good ideas and connections are lost as they struggle with spelling and writing. Due to the fact that many do not read for pleasure, their vocabulary may be limited.

Developing Vocabulary

- Choose dictionaries which have large print, preferably in dyslexia friendly fonts with plenty of space between entries. A bookmark with the alphabet is also a good aid. Increasingly dictionaries are being produced with the alphabet printed on each page.
- If an unfamiliar word appears in a text, show them how to pronounce it, explain its meaning and ask them to put it into a sentence so they become familiar with it. It could then be put into a subject-specific vocabulary notebook. The National Behaviour Support Service www.nbss.ie has excellent resources on teaching vocabulary.
- The English Language Support Programme www.elsp.ie, while designed primarily for students whose first language is not English, has resources which equally well suit the needs of all students. In particular it has lists of key words and worksheets in many subjects such as maths, science, business and wood technology.
- The Special Needs Information Press has a literacy intervention programme which uses specific secondary curriculum words together with high frequency words to support word recognition and spelling. It can be used on a one-to-one basis or with groups. It is a free download at www.snip-newsletter.co.uk/pdfs/downloads/precision_teaching.pdf
- The Florida Center for Reading Research site has a huge treasure trove of class activities and games on phonics, reading fluency, comprehension and vocabulary. It provides the instructions and materials for each class activity. Website: www.fcrr.org/resources/resources_sca_4-5.html
- English for Everyone www.englishforeveryone.org has extensive printable English worksheets on comprehension, writing, grammar, phonics, spelling etc.
- Show how a word can be broken up into its base word, and suffix and/or prefix and how these change the meaning of the word, e.g. helpful, helpless, unhelpful.
- Up to 75% of English words come from Latin and Greek roots. Knowing these roots is especially valuable for the student with dyslexia for two reasons.
  - These students learn best when they can see patterns and understand what they are learning.
  - Many do not read for pleasure and as a result may not have an extensive vocabulary. As a result they often come across words they do not recognise. Giving them an understanding of the Latin and Greek roots helps them to see how the word is constructed, how to pronounce it, how to guess its meaning and a tool to help in spelling it. For example, the use of the ending ‘cide’ means killing, so it is easier to find the meaning of words such as homicide, infanticide, herbicide, etc.

Developing Spelling

- Check how the student says the word. Many, for example, say ‘I should of’ instead of ‘I should have’ and therefore spell it the same way.
- Write new words on the board, divide them into syllables and show how to pronounce the word, e.g. com/pre/hen/sive, post/trau/ma/tic.
- Students will find it difficult to learn new spellings by simply copying words. A multi-sensory approach LOOK-PICTURE-COVER-PICTURE-WRITE-CHECK is a proven method for learning spelling.
- Mnemonics help them to have a rule in their head. Examples include: A piece of pie or Never believe a lie or Emma has a dilemma.
- Knowing the rules of Latin and Greek plurals can help them make sense of the spelling, e.g. why curriculum changes to curricula or fungus changes to fungi. There is only ten Latin and Greek plurals. See www.biomedicaleditor.com/spelling-tip-latin.html.

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• Don’t ask them to correct and copy all the misspellings. It will not help. Explain one or two categories of error and ask them to do examples showing they understand what was wrong.

• **Keda Publications** [www.kedapublications.co.uk](http://www.kedapublications.co.uk). have a book *Stareway to Spelling*. Often the students can remember spelling test lists in the short term, but cannot write effectively because they soon forget the correct spelling. The carefully constructed methods within *Stareway to Spelling* ensure that the 300 most used words can be committed to long-term memory and recalled at will by the student.

**Developing Writing (Presentation)**

• Check the basics. How does the student sit and hold the pen. A pen grip might help.

• Handwriting can be quite difficult to read. The teacher might put a note on an exercise ‘Improve handwriting’ but the student does not know how to do this. The reasons for the poor handwriting can include:
  - Letters too large or too small.
  - Spaces between letters/words uneven.
  - Slope of the handwriting inconsistent.
  - Writing does not stay on the line.
  - Not closing letters such as ‘a’ or ‘d’.

The teacher could ask the student to concentrate on correcting one of these difficulties at a time.

• Poor presentation of work can come from a lack of perception of space on the page. The student may need to be taught how to lay out work in steps and how necessary it is to use tools such as rulers/margins to improve layout.

**Developing Writing (Content)**

Key problems in written work of students with dyslexia are either they write off the point or do not write enough when answering. Train them to tackle writing essay-type answers in 5 stages: analyse the question, brainstorm, plan, write and check.

• **Analyse the question:** They do not have to include all they know on a topic but have to select relevant material to answer the question asked. Check they understand the meanings of words used in questions. Take class time to practise deconstructing questions and identifying what they have been asked.

• **Brainstorm a topic.** Headings should be brief and no attempt at structure at this stage so the mind is free to make associations. When brainstorming, use Post-its for points. They help when organising ideas and also reduce the amount of rewriting.

• **Plan:** The next stage is to plan the structure of the essay using the brainstorm. Common problems include lack of structure, haphazard planning or an uneven amount of writing on different aspects of the answer.

• **Some ideas to help with planning**
  - Making mindmaps or outline plans mean they can see the structure of the essay spatially arranged.
  - Give class assignments that require them just to hand in the planning for an answer.
  - Ask the student to plan an essay by writing the topic sentence for each paragraph.
  - In some subjects it is helpful to give writing frames/formats which show the structure of the answer required.
  - The software Inspiration has templates for answers in a number of subjects.
  - Lists of points to be included in an answer can prompt them to write at greater length.
  - Get them to make up three characters in great detail such as how they look, clothes, hobbies, family, school, jobs, friends, opinions etc. They could get pictures from magazines or the internet which will help them visualise the individuals. This makes it easier to compose a short story.

• **Write:** When they start to write, their thinking has been done. Now they concentrate on writing skills to express their ideas.

• **Check:** Students are more likely to pick up errors if they proofread aloud or by saying each word quietly. They can hear the mismatch between what they have written and what they meant to have said. They will pick up more errors if they proofread three times, once for content, once for spelling and once for grammar/punctuation.
Some students find mathematics difficult to understand. It may be the result of dyslexia or dyscalculia. One can have dyscalculia with or without having dyslexia and vice versa.

**Difficulties in Maths due to Dyslexia**

Students with dyslexia may have some of the following difficulties:

- Poor memory and, in particular, working memory. Rote learning of tables, rules and formulae is problematic. They perform badly at mental arithmetic as they may need time to process the question before thinking about the answer.
- Their working memory often can hold only a small number of items at a time. As a consequence they cannot automatically perform mental calculations or may have difficulty remembering the steps in a complicated procedure such as long division or quadratic equations.
- Information may not have been well stored in long term memory and this may mean that they have not a solid grasp of basic facts which affects future learning.
- Confusion about direction or left and right can result in difficulties in many aspects of maths such as co-ordinate geometry, the number line with positive and negative numbers, decimals and division. Students may reverse words, numbers or symbols. Left to right confusion in maths is not helped by the fact that the usual way to work in maths is the opposite direction to that when reading.
- Where several operations are required in an arithmetic calculation, the student may have difficulty with sequencing and direction e.g. ‘Which number do you take from which’, or ‘Which procedure must be done first’. The student may have difficulty in remembering accurately the meaning of the symbols used in maths such as **bigger than (>) or less than (<)**.
- One of the most stress-inducing situations is performing under pressure of time. The student with dyslexia may have a processing speed difficulty, which may affect mental calculations, the processing of verbal instructions and writing down answers.

**Difficulties with the language of maths**

- Procedures may have more than one way of being explained. Teachers may differ in their approaches. This can be confusing.
- Vocabulary is not always used consistently. **Subtraction**, for example, can also be indicated by the words **take away, minus, decrease, less than or difference**.
- Terms used in ordinary speech take on a different meaning in maths. **Mean** in English denotes **unkind, to represent or miserly** while in maths it has a precise and very different meaning.
- A student with dyslexia may have difficulty taking in instructions, particularly if these are long and complex and if specialist vocabulary is used inconsistently.
- Reading may be inaccurate. Words with similar prefixes such as ‘**concave/convex**’ are easily confused. Students may have difficulty understanding and interpreting what is being asked because of the language in which the problem is presented.
- Students with visual difficulties such as visual stress and tracking may lose their place when working across a line of symbols and numbers, often skipping to the next line or place. They may find the page too crowded or too distracting to be read easily.

**Difficulties specific to Dyscalculia**

Students with dyscalculia have no natural understanding of number. They find it difficult to comprehend the relative size of number, for example, to know if 345 is more than or less than 543. There is an inability to conceptualise and execute maths processes. The student may be able to complete the calculation correctly but does not understand why it works. This means knowledge is not transferred to new problems. A student may experience some of the following difficulties:

- Not seeing patterns within numbers. They do not easily see that $7 = 2 + 2 + 2 + 1$ and also $3 + 4$ or $3 + 3 + 1$.
- Finds it hard to visualise the overall ten structure of the number system e.g. 27 is **twenty seven ones, two tens and seven ones or seven more than twenty**.
- Generally counts in ones, often using fingers. Find it hard to count backwards.
Poor working memory leading to difficulties remembering formulae and procedures.

Does not remember number facts such as tables, or everyday applications of numbers in budgets or financial information.

Does not easily generalise knowledge from one topic to the next topic in number work.

Will experience considerable anxiety around maths. This intense fear and avoidance can affect their ability to learn maths skills and concepts.

**Dyscalculia Assessment**

Here are two possible tools to assess for Dyscalculia.

1. **Dyscalculia Assessment** is a tool for investigating pupils’ numeracy abilities. It is designed to inform a personalised teaching programme for individuals or small groups of pupils who have difficulties with numbers. The book, written by Jane Emerson and Patricia Babtie, was the winner of the ERA Best Special Educational Needs Resource 2011. Available from Demac Education. Cost €63.50.

2. **The Dyscalculia Screener.** The 30 minute test is an ideal tool for screening an entire year group, or for screening those pupils showing some signs of difficulty. The author, Dr Brian Butterworth, is the UK’s leading authority on dyscalculia. Available from [www.gl-assessment.ie](http://www.gl-assessment.ie).

**Can students make progress in maths?**

Progress in number work is often slow and students can regress. Nevertheless basic number work needs to be worked at to lessen as much as possible the difficulties experienced by students with dyslexia and dyscalculia. There are other areas in maths where students may not have the same level of difficulty such as algebra and geometry. Progress is possible if one adopts certain principles of teaching and learning strategies that have shown good returns.

There are a range of practical programs and apps that students may find useful for practising their techniques with numbers and for learning patterns, thus gaining confidence in using mathematical procedures.

**Specific help for Dyscalculia or Dyslexia**

The *Power of 2* by D.J. Sharp is a book which provides a highly structured one-to-one maths coaching system which is particularly suited to dyslexic and dyscalculia students who require extra support to bond the basic maths facts into their long-term memory. The books are for a student and coach to work through together. The ‘coach’ can be anyone: teaching assistance, mentor, teacher, parent or friend. It is very similar in approach to *Toe by Toe* system for literacy. See [www.powerof2.co.uk](http://www.powerof2.co.uk).

**Article on Maths from Yale Centre for Dyslexia and Creativity (YCDC)**

[http://dyslexia.yale.edu/math.html](http://dyslexia.yale.edu/math.html)

Since the YCDC website began in 2007, it received many requests about how best to help dyslexic students struggling with Maths. They asked Chris Woodin, the head of the Math Department at Landmark School, a school that specializes in teaching students with language-based learning issues, to help find alternative methods for mitigating common math struggles that seem to accompany dyslexia.

Woodlin offered many helpful and practical strategies for Maths teaching and short videos showing them in action in the above link.
FACTSHEET 11: TEACHING MATHEMATICS TO STUDENTS WITH DYSLEXIA & DYSCALCULIA

Essential texts are Steve Chinn’s *The Trouble with Maths* and *More Trouble with Maths* and in particular the sections dealing with diagnostic assessment and teaching strategies. He states that ‘Mathematics appears to be THE subject for school anxiety’. Anxiety will be greatly reduced by showing understanding of the difficulties, by building up competence through encouragement, by judicious marking and by assisting the student to set attainable goals. While the student’s difficulties present the teacher with a ‘problem’, the teaching process may present the student with a ‘problem’.

**How can one best support the student with difficulties in maths?**

The programme of remediation should be:

- Structured and cumulative, using multi-sensory methods.
- Individual to the student, based on analysis of their work and learning speed.
- Cyclical, with built-in regular revision of previously learned facts and procedures.
- Based on understanding rather than rote learning.
- The language of instruction should be clear, unambiguous, consistent and concise.
- New concepts should be introduced using simple examples.

**General strategies for the classroom**

- The use of diagnostic assessment as the basis for effective intervention is needed. This allows teachers to understand the student’s unique difficulties and to identify the exact processes that are not being understood or learned. Test scores are less important than identifying where the problems lie.
- Cognitive styles can influence how the student approaches a number task. Some think holistically and intuit the answer to the problem (the Grasshopper), while others prefer to move analytically step-by-step (the Inchworm). Teachers can help by understanding these styles and providing strategies to help.
- Students may be slow in reading questions. Even after decoding the words, they may not comprehend what is required. If explained, they have no problem doing the maths. It is a reading problem. Students may have more difficulty with Project Maths due to the increase in the verbal content of the paper.
- Practice and repetition: Students with dyslexia require more time rehearsing facts and procedures before these can be accessed automatically. This becomes the rationale for building in recurrent revision to a teaching programme. Progress should be evaluated against the student’s own scores, not those of the class.
- Understanding is the key to learning. For students who have poor rote memories and yet need to learn basic number facts, the key to learning is to ensure they understand why a particular procedure is chosen and the purpose of the task.
- The ability to visualise is a skill that many students with dyslexia use to great effect. Visualisation is developed through hands-on learning and the use of concrete materials. When they have internalised the vocabulary, the symbols and the procedures for calculating numbers they will be able then to automatically access the relevant facts for problem solving.

**Practical Tips**

- Teach organisation skills. The student may need to be taught how to lay out work on the page and to use a ruler and margins. Use squared pages. Test papers should be clearly set out, even to the point of one problem per page, to avoid distraction.
- The direction of calculation needs to be regularly reinforced through using concrete materials and colour coding. The student could use arrows to show in which direction the sum goes.
- Use mnemonics when possible. They provide a path through confusion. Examples include ‘The old American sat on his car and hiccupped’ for Tan, Sin and Cos or ‘FED’ (foreign to Euro divide) for currency exchange.
- Put keywords into a vocabulary notebook to be used for reference and revision. Take time to teach maths vocabulary in class using multi-sensory methods. The Junior Certificate Schools programme www.jcsp.ie and the English Language Support Programme www.elsp.ie have lists of key vocabulary in maths along with worksheets and activities to promote learning of the keywords. The
JCSP site is being updated. In the meantime the resources are available at www.becpublishing.com.

- Use subvocalising by training students to say numbers quietly as they write them. The mismatch between the eye and ear alerts the student to inaccuracy.
- Allow more time than usual for working out and answering.

**Don'ts**

- Don’t overuse the blackboard. Minimise the amount of copying from the blackboard, possibly by providing photocopies. Don’t dictate a problem. It is unlikely information will be taken down accurately.
- Don’t overload homework. Set a maximum time for homework.
- Because maths is a progressive subject, it is unwise to move from one topic to the next unless the first has been understood and internalised.

**Websites**

- Engineers Ireland STEPS programme website (www.steps.ie) has maths revision videos, maths modelling, Project Maths support and real world maths for students. It also has downloadable maths worksheets for second level teachers.
- The National Centre for Excellence in Mathematics and Science Teaching and Learning website (www.nce-mstl.ie) has many resources for use in the classroom.
- www.mathletes.ie The Mathletes Challenge is a free Maths tournament based on the Khan Academy approach to learning and teaching Maths.
- www.ixl.ie IXL is aligned to the Leaving and Junior Certificate syllabus and provides comprehensive coverage of maths concepts and applications.
- The Nrich programme based in University of Cambridge www.nrich.maths.org aims to enrich research and resources on good practice for the teaching of maths and science which will be updated twice a year.
- www.alison.com Alison, which provides free online training, offers 250 Maths tutorial videos aligned to the Leaving and Junior Certificate Project Maths syllabus.
- www.mathsexplained.co.uk This is a short series of videos for adults and children who experience difficulty with Maths. It is designed by Steve Chinn, author of The Trouble with Maths.

**Apps**

There are endless numbers of free Apps that are excellent for learning the links and patterns between numbers. The benefit for the student is that the mistakes they make are not noticed by anyone else and they have the enjoyment of working towards their personal best.

Some examples of Apps are as follows:

- Maths Tricks
- Maths Workout
- Maths Pieces (Maths puzzle game)
- Call Scotland had produced a poster on iPad apps for learners with dyscalculia or numeracy difficulties at http://www.callscotland.org.uk/common-assets/cm-files/posters/ipad-apps-for-learners-with-dyscalculianumeracy-difficulties.pdf

All versions of MSWord from 2000 on have a built-in equation editor that can be used to complete mathematics work. It is possible to see demonstrations of this editor on YouTube.

**Maths Videos**

- www.mashupmath.com has some excellent videos
- www.mathantics.com shows lessons on a range of maths topics
- www.teachthought.com/technology/stunningly-simple-way-explain-pi is a gif animation which does what it says. It is a simple way to explain Pi.

**Useful References**

Chinn, S. The Trouble with Maths (2nd Ed. 2012) Routledge
FACTSHEET 12: TEACHING LANGUAGES TO STUDENTS WITH DYSEXIA

The criterion for granting an Irish exemption is that the student is of average ability and has literacy scores at or below the 10th percentile. The same criterion applies to the granting of the NUI 3rd language exemption since 2012. Many students with dyslexia do not qualify for such exemptions and are likely to study languages if they want to keep the option of going to NUI colleges open.

If students have had difficulty in the study of their own language, they may struggle when learning a new language. Difficulties may include pronunciation, phonics, tenses, spelling, sequencing words in the sentence, vocabulary development and grammar. Cogan and Flecker in their book *Dyslexia in Secondary School, a Practical Handbook for Teachers, Parents and Students* have an excellent section on teaching languages with many practical strategies and photocopiable worksheets. Many of the strategies below are based on this book and it is a key resource for language teachers.

The University of Lancaster offers a free on-line course for language teachers on teaching languages to students with dyslexia. See [www.futurelearn.com/courses/dyslexia](http://www.futurelearn.com/courses/dyslexia).

**Sounds**
Many students face the challenge that vowel and consonants combinations do not make the same sound in the new language as they do in English. They need to practise seeing and saying the sounds until they recognise them automatically. Teaching the phonics of new sound combinations and giving worksheets on sounds is helpful.

**Use of Dictionaries**
Choose dictionaries that have large print, preferably in dyslexia friendly fonts with plenty of space between entries. As students may have difficulty remembering the alphabet they could tag where the entries for each letter start. A bookmark with the alphabet is a good aid. More publishers are now printing dictionaries with the alphabet printed on each page.

**Learning Vocabulary**
Learning vocabulary is crucial to mastery of a new language. Dyslexic students may find the task exceptionally hard. They need structured programmes of vocabulary development and a multisensory approach which makes them see, say, hear and write words.

Suggestions when learning vocabulary include:

- The more connections dyslexic learners can make between their own language and the foreign language, the more confident they become. They are likely to find rote learning hard but may learn more easily through understanding a pattern. Fig. 6.4 in Cogan and Flecker illustrates connections between French and English spellings.

<table>
<thead>
<tr>
<th>French</th>
<th>English</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>C</td>
<td><em>prix</em> = price, <em>choix</em> = choice</td>
</tr>
<tr>
<td>U</td>
<td>L</td>
<td><em>faucon</em> = falcon, <em>saumon</em> = salmon</td>
</tr>
<tr>
<td>oire</td>
<td>ory</td>
<td><em>victoire</em> = victory, <em>gloire</em> = glory</td>
</tr>
</tbody>
</table>

- Linking an action to the word makes it more memorable, such as smiling when saying *sourir* or saying *je tosse* when coughing.
- Using a vocabulary list with space to draw pictures helps with learning.
- When copying vocabulary, they will make mistakes. Also layout could be poor and handwriting difficult to decipher. Give printed vocabulary sheets.
- Vocabulary lists that are topic-based allow students to visualise which helps learning, and are preferable to alphabetical lists with no connections between words. Always place new words in a context and write them in a sentence.
• Highlighting words in pink and blue help students remember the gender of nouns.

• Mnemonics also help in remembering rules in grammar. For example, BANGS (Beauty, Age, Number, Good and Size) can help in when deciding which adjectives come before a noun in French.

Verbs
Students with dyslexia may find learning verbs difficult. They do not easily see or hear the segments within a word due to a deficit in phonological processing. As a result they are not alert to the ‘base’ word and prefixes/ suffixes.

To help them identify the base word and the endings, give a piece of written material where they use a highlighter to mark the endings of verbs.

Another difficulty is that they often have a poor sense of time and this leads to problems with identifying tenses. They can be helped by identifying tenses in their own language. This can be done with cards with verbs written on them and they have to place them under the headings of the tenses such as past imperfect, present etc. Once they can identify and justify their decision by saying ‘This is the imperfect tense because it is a continuous action in the past’, they will be able to apply this learning to the new language.

Grammar
Sequencing difficulties may mean the student has difficulty with grammar and syntax. This is particularly true in languages where the grammatical conventions are very different to English such as Irish where the verb comes first.

Cogan & Flecker suggest strategies such as:

• Give a sheet of model sentences, each of which illustrates a rule. This gives students an example against which to test their own work. Putting these on tape allows for multi-sensory learning.

• Use cards games to help build up sentences. Each word in the sentence is on a separate card and they arrange the cards to make sentences. The words could be colour coded for different parts of speech.

Resources

Crombie, M & Schneider, E. Dyslexia and Foreign Language Learning British Dyslexia Association Curriculum Series, Editors: Peer, L & Reid G.


Websites
www.duolingo.com
This site provides interactive learning of languages in progressive stages with writing and speaking exercises. Languages include Irish, French, Spanish, German and Italian.

www.memrise.com (iOS and Android)
Memrise focuses on teaching languages to students and uses visual flashcards to help them remember words and phrases for many different languages. Although the app focuses on languages it can be used to learn geography, history and sciences.

www.rte.ie/exams
This website has links to French and German newspapers and radio stations.
FACTSHEET 13: EDUCATIONAL CHOICES FOR STUDENTS WITH DYSLEXIA

Students with dyslexia tend to have an uneven profile of abilities. In order to capitalise on their strengths, it is important that they navigate the school system by making the best educational choices and that schools allow as much flexibility as possible to enable students achieve their best.

**Standardised Testing**

Standardised tests are often used at entrance and prior to senior cycle. There are limitations to the use of such testing for students with dyslexia. The scores in the educational psychological assessment are more valid and give an indication of potential as well as attainment.

The reasons why it is difficult to get an accurate result on standardised testing for students with dyslexia include:

- Speed of processing may be a weakness. It takes students longer to understand text and complete a test. They may not complete all questions within the time limits and yet, if given more time, they could do much better.
- They may be slower in reading instructions or deciphering the meaning in a sequence of instructions. This can be a big disadvantage in a timed test.
- In a maths test where questions are in a verbal format, it may become a test of their English and not their maths abilities.
- They may lack the vocabulary and have to take time to decode what the words mean or have to reread the questions to ensure understanding. Some students with severe dyslexia may not be able to read the questions, yet if the questions are read to them, they are capable of answering correctly.
- The Public Appointments Service allows applicants with dyslexia additional time when taking standardised testing for recruitment and promotion purposes.

**Subject choice**

Subject choice is of critical importance for students with dyslexia. Students with no learning difficulties may have individual preferences about subjects but are likely to do equally well in a variety of subjects. Dyslexic students, due to their uneven profile of ability, may do exceptionally well in some subjects and may find others very difficult and face failure in them. Below are some of the issues to consider when choosing subjects particularly for the Leaving Certificate which is such an important gateway to third level courses.

- Many students face similar difficulties in the study of languages as they have had in English. Phonics, spelling, sequencing of words and learning vocabulary all pose problems. If obliged to take a language they may drop to ordinary level whereas they would take higher level in another subject. This affects their points. NUI have tightened the criteria for granting an exemption in third language requirement in 2012. It states the student should be at or below the 10th percentile on two literacy scores in an educational psychological assessment. This means more students having to take a third language in order to keep open the option of studying in the NUI colleges. In senior cycle, would it be more strategic for a student to study the 3rd language outside school at ordinary level and take a different subject at higher level in school?

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Subjects that require answers containing factual information may be easier than subjects in which answers are in essay type format. Therefore geography, business, or physics may be easier to achieve in than English or History.

Subjects that require a large amount of rote learning or the learning of many unfamiliar words can pose problems. Therefore home economics or chemistry could prove to be easier than biology.

The student may have strengths in visual-spatial skills and could do well in subjects such as technical graphics, art, technology and construction studies.

Continuous assessment is of benefit to students with short term memory difficulties so subjects with marks going for projects/journals/practical work are of benefit.

**Choices after second level**

DARE provides assistance by way of reduced points to some students when applying to college. A psychological assessment of any age that states the applicant has a Specific Learning Difficulty is acceptable.

The evidence of disability can be either:
- Scores from school-based attainment testing done within two years prior to application.
- Scores from attainment tests carried out by an educational psychologist.

To be eligible for DARE the student must meet both the DARE evidence of disability criteria and DARE educational impact criteria. (See Factsheet 5 for more detail on DARE.) The eligibility criteria for dyslexia state that standard scores in two literacy areas should be at or below a standard score of 81 (10th percentile). For dyscalculia, two mathematics scores should be at or below a standard score of 81.

Many students will not qualify for DARE. Even so, they are still eligible for the supports in college and should apply to the disability services in their chosen college.

Students with dyslexia may not do well in the broad-based Leaving Certificate where they may be taking subjects they find difficult to achieve in. Yet when at college when they can specialise in courses that suit their strengths, they can make good progress.

**Continuous assessment, semesters and project/practical elements in the course help the student to achieve when in college.**

**NCSE Booklet**

The National Council for Special Education in association with the National Disability Authority has published an information booklet on the full range of post school education and training options for adults and school leavers with disabilities. It provides summary information on all the main programmes and supports available. It is downloadable at [www.ncse.ie](http://www.ncse.ie).
FACT SHEET 14: MAKING INFORMATION ACCESSIBLE – DYSLEXIA FRIENDLY STYLE GUIDE

For people with dyslexia, the ability to read and understand text can be affected by the way in which text has been written and produced. If producing information to be read by others, it is important to remember that up to 10% of readers may have dyslexia. Dyslexia friendly text improves readability and has a better visual impact for all readers, but especially those with dyslexia. The following are some simple recommendations to help ensure that text is dyslexia friendly:

Font Style
- Use a san serif font such as Arial, Comic Sans, Calibri, Verdana or Sassoon.
- Use a minimum of 12pt or 14pt font size.
- Use lower case letters. Avoid unnecessary use of capitals. Using all capital letters can make it harder to read.
- www.dyslexiefont.com and www.opendyslexic.org both offer a font designed specifically for people with dyslexia. The fonts are free for home users. The following has been written in Dyslexie font.

The Dyslexie font is designed for people with dyslexia. In the Dyslexie font, every letter is uniquely shaped, eliminating the common reading errors of dyslexia. Key features are:
- The centre of gravity is placed at the bottom, which avoids turning letters upside down and adds a clear base line.
- Some Dyslexie font letters have longer sticks, which helps to decrease switching letters while reading.
- Capital letters and punctuation are bolder making it clear where sentences begin and end.
- Some ‘twin letters’ are placed slightly inclined, which makes them easier to distinguish.
- The spaces between words and letters are increased.

The font is available free for home users at www.dyslexiefont.com. When downloaded, it is added to the list of fonts available for use.

A similar font is at www.opendyslexic.com

Paper
- Use a coloured paper, even cream or off white. Some individuals have specific colour preferences, e.g. yellow or blue. www.abcschoolsupplies.ie in Letterkenny have translucent rulers and overlays. Easons have A4 pads in different colours.
- Use matt paper to reduce glare.
- Don’t use flimsy paper which may allow text from the other side to show through. Good quality 80 or 90 gsm is effective.
- Avoid light text on a dark background.

Presentation Style
- Keep sentences and paragraphs short. Try to break text into short readable units.
- Use wide margins and headings.
- Use at least 1.5 line spaces between lines of text, if possible.
- Use bold print to highlight. Italics and underline should be avoided as they can blur text.

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• Highlight important text in a box or use colour.
• Use bullet points and numbers rather than long passages of prose.
• Keep text left justified with a ragged right edge.
• Don’t use unnecessary hyphenation.

Writing Style
It is best to keep text as simple and concise as possible, to aid navigation and comprehension.
• Keep sentences short and to the point (15-20 words per sentence).
• It helps to imagine the reader is sitting opposite you and you are talking directly to them.
• Give clear instructions, and avoid lengthy explanations.
• Use short words and terms where possible – avoid unnecessary complex vocabulary.
• Good advice on producing text in ‘Plain English’ can be found online at www.plainenglish.co.uk/free-guides.html.

Readability Tests
There is a good briefing on readability tests at the following link: www.snip-newsletter.co.uk/pdfs/downloads/readability_briefing.pdf.

Microsoft Word Version 2010 and later versions have a readability function which could be used to check the readability of handouts or of textbooks by typing in a selection of text from a book. The way to access this feature is as follows:

Go To File, to Options, to Proofing. Tick the Readability Statistics.
Then do a spell check on the document and when it is completed, readability statistics are provided. It provides a Flesch Reading Ease Score and a Flesch-Kincaid Grade level.

Flesch Reading Ease Score
A score between 90 and 100 would be easily read by eleven year olds
A score between 60 and 70 would be easily read by thirteen to fifteen year olds
A score between 0 and 30 would be easily read by university graduates.

Flesch Kincaid Grade Level
This test gives the grade level in USA schools. The SNIP newsletter suggests the following instruction to interpret this. ‘Add 5 to the F-K grade and you have an approximate UK readability level.
Remember that this is a simplistic method but provides a starting place when evaluating text’.

Posters and Leaflets
• Keep design simple.
• Avoid background graphics which can make text harder to read.
• Keep essential information grouped together, such as the time, date and place of an event.

Universal Accessibility
• Include useful pictures and graphics.
• Flow charts can help to explain procedures.
• Lists of “do’s and don’ts” can be more useful than long passages of text.
• A glossary will help to explain abbreviations, acronyms and jargon.
• Longer documents should have a contents guide at the beginning and an index at the end.
• It is important to provide documents in a timely manner. Teachers and lecturers should make handouts available before the class begins.
FACTSHEET 15: COMPUTERS AND ASSISTIVE TECHNOLOGY

Developments in computers and assistive technology provide essential and significant help to students with dyslexia.

The Department of Education and Skills circular (circular 0010/2013) outlines a scheme of grants towards the purchase of essential assistive technology equipment for pupils with physical or communication difficulties who could not access the curriculum without such support. An application is made to the National Council for Special Education and should be accompanied by professional reports such as an educational psychological assessment which states how the equipment will be used.

The circular outlines a staged approach to the provision of assistive technology. As part of this approach it states:

‘Many students now have personal/tablet computers, or smart phones with equivalent capability, which may have been purchased for them by their parents or alternative sources. Where pupils with special educational needs, or with distinct educational requirements, have personal computer with relevant educational software or technological packages, which can assist them in schools, schools should allow those pupils, subject to agreement and supervision, to use such devices in schools. It will be a matter for schools to ascertain the relevance of the educational equipment or software being used and to supervise its use in school, in accordance with the schools policies on the use of electronic equipment in schools’.

This means that parents could approach a school to ask if the pupil could use their own laptop or tablet in the classroom.

If the computer and/or software are bought by parents for home/personal use, the VAT can be claimed back using Form VAT 61A from the VAT repayments section. The form can be downloaded online from www.revenue.ie/en/vat/documents/form-vat61a.pdf.

Enable Ireland AT Service and the Dyslexia Association of Ireland have collaborated to produce a free learning resource outlining free and low cost apps and software to support literacy. This short eLearning module called Study Smart should be of interest to parents, students, teachers and other professionals working with people with dyslexia. To access the module just follow the link below http://atcourse.org/hala-national-forum-for-adult-literacy-tutors-2016/

Some simple low cost technology

- Typed rather than handwritten notes. Font size should be a minimum of 12 or 14, using san serif fonts such as Arial, Calibri or Comic Sans.
- Photocopy onto coloured paper. This reduces glare for some people. Coloured overlays placed on the text when reading can also help.
- Colour coding key information such as the different parts of speech when learning languages.
- Provision of visual information such as pictures, diagrams, charts or mindmaps.
- Use of tapes, CDs, DVDs

- Some students, who learn best by hearing, benefit from taping lectures or recording their own notes. A MP3 player can be used so they can listen to their own notes. Digital copies of textbooks are available from some of the educational book publishers. (See below).
- Electronic dictionaries such as the Franklin Spellmaster. If the student makes a reasonable phonetic attempt, there is a good likelihood of identifying the correct spelling.

Developing literacy and numeracy skills

There are hundreds of excellent programmes available which support the development of skills in reading, phonics, spelling and maths. Examples of some of the programmes include:

- Workshark based on the Alpha to Omega programme which uses games to develop reading and spelling skills.
- The Lexia reading series helps students in areas such as phonemic awareness, decoding skills and comprehension.
- The Gamz Player CD is based on popular swap games and supports reading, phonics and spelling.
• **Numbershark, Mathmania, BBC Maths Workshop Series, IntelliMaths** are all useful programmes for numeracy difficulties. See Factsheet 10 for more websites to help with numeracy.

**Reading support/accessing text**

Accessing curriculum textbooks can be challenging for students with reading difficulties. **C Pen Reader** enables text to be scanned and read either aloud or through headphones. It also has a dictionary feature. The scanned text can be transferred later to a computer which is very handy for taking notes from textbooks. Also available is the Exam Reader Pen which is now allowed as a reasonable accommodation in State Exams. It does not have a dictionary or the facility to scan. These are available from Ed Tech (www.edtech.ie) or www.scanningpens.co.uk. The website www.examreader.com has videos showing the use of these pens.

Screen reading software reads any text on the computer screen, whether it is text the student has typed in, emails, webpages or the pages of a textbook which has been scanned in. The reading voice and speed can be adjusted. Text scanned in can be converted to an audio file and downloaded to an MP3 player. Examples of such software are **Claroread, Kurzweil, Read and Write Gold** and **TextHelp**. Mobile versions of this software are available (on a USB drive) allowing the student to use it on any compatible computer.

**WordTalk** is a free plug-in for Microsoft Word that reads out text and also has a talking dictionary feature. Many PDFs have an in-built screen reader, which can be activated by going to ‘View’ and then selecting ‘Read Out Loud’.

A new Irish-developed app called **SOSread** is now available. It is a confidential emergency reading service. Take a picture of what is to be read and send it to them; they will then send back an audio file reading. The first read is free, but subsequent reads incur a charge (£1.30 for 5 minutes of reading). The live video reading is more expensive. One unique feature of SOSread is that because it uses real people as the confidential readers, they can read handwriting. Most reading apps (text to speech) read digital/printed text only. The SOSread app is available in both Apple and android versions. See www.sosread.com for more info.

**Developing Memory Skills**

**Memory Quest**

This programme provides working memory training. It has been developed based on recent scientific findings on training of cognitive skills. The programme is adaptive i.e. automatically adjust the difficulty level based on the performance of the trainee. Memory Quest have been produced with financial support from the Swedish National Agency for Special Needs Education and Schools. It is available from www.edtech.ie.

www.nessy.com/uk/dyslexia-quest/

**Dyslexia Quest**: The games are designed to assess working memory, phonological awareness, processing speed, visual memory, auditory memory and sequencing skills. Dyslexia Quest has been developed, researched and tested at the Bristol Dyslexia Centre. The app is designed for a single player and does not support simultaneous multiple users. There are three age ranges: 7-10 years, 11-16 years and 17+. Cost is €9.99

**Writing support**

Students with dyslexia are more likely to produce better work on a computer than if they are writing by hand. The computer produces clear legible text. Spelling can be checked using a spellchecker. Software such as **Grammarly** or **Ginger** can be of more help than a spellchecker. **Grammarly** corrects over 250 types of grammatical mistakes while also catching contextual spelling errors and poor vocabulary usage. Grammarly spots erroneous use of *lose/loose, affect/effect, lie/lay, there/their/they’re*, and many other commonly confused words which a spellchecker won’t.

**Typing Club** www.typingclub.com is a free online program that helps students learn and improving their typing speed. It includes 650 typing games, typing tests and videos. It provides instant feedback as well as summarized speed and accuracy assessments at the end of each lesson. Teachers can access all the same data that students see, and they can monitor students’ real-time and overall progress.

The **AutoCorrect** feature in Microsoft Word can be customised so that the individual can build up their own bank of commonly misspelled words.

Editing and rearranging text is easy, which is of particular help to students who have sequencing difficulties.

Screen readers, which read what is typed in on the screen, are a useful tool to support writing. They
allow the student to hear any errors such as a misspelling or an incomplete sentence. **ClaroRead** and **TextHelp** have a homophone checker. Possible homonyms are identified in the text and guidance is given to help choose the correct word. Both programmes have word prediction.

Software such as **Textease**, **Co-Writer** and **Penfriend** support writing with features such as talking spellcheckers and word prediction which can increase the speed of written production. **Clicker** is another useful programme where the student can write with whole words and even pictures.

**Office Lens** uses the camera on the phone to scan documents which can be saved to cloud storage accounts. **Cogi** captures audio highlights of a lecture. Uses 15 sec buffer so when the students realise this is an important part and tap ‘Rec’ it starts recording from 15 sec previously. Recording app designed to assist people who already take reasonably good paper notes.

Voice recognition software is ideally suited to older students who have to produce longer pieces of written work. All instructions can be given verbally. The computer types as the student speaks. **Dragon Dictate Naturally Speaking** is the most commonly used programme of this type. Accuracy does increase with usage. To get the best from these programmes, a powerful modern computer with a good soundcard and microphone is essential.

**Organisational and Study Skills**

A very common feature of dyslexia is poor organisation skills, which affects many areas such as timekeeping, planning study timetables and especially organisation of information.

Mind-mapping software programmes such as **Inspiration** are very useful tools for students with good visual spatial ability. Students use it to make visual revision aids, brainstorming, concept mapping and planning essays. **Coggle** is another mindmapping app.

**Mind Genius** is another good programme for older students and adults in the workplace. There are lots of mind-mapping apps for tablets and smartphones – **Popplet** is one example. **MyStudyBar** is a set of portable open source and freeware applications to help dyslexic students with studying, assembled into one package. It includes tools for mind-mapping, customising fonts and background colours, a talking dictionary and text-to-speech features. It is completely free to use.

**Wordswork** is a multi-sensory programme on study skills. While designed primarily for undergraduate students with dyslexia, it is relevant for students at second level. Topics covered include essay writing, memory strategies, exam revision and time management, with sections on reading, spelling and grammar.

Students may find a PDA (Personal Digital Assistant) or electronic organiser helpful to keep track of course requirements and to-do lists, study timetables, and sports/social commitments. **Trello** is a task management app with ‘to do’ lists, reminders, task completion status and several other project planning functions.

**iPad/Android tablets**

While Apps cannot provide the full range of facilities found on computers and laptops, they can be very helpful and have had a major impact in the last few years and are used increasingly in teaching and learning. With over one million Apps in the App Store for the iPad alone, it can be bewildering to identify what might be most appropriate for an individual student. The following websites provide guidance and help for teachers and parents.

**The British Dyslexia Association (BDA)**

The BDA website [www.bdatech.org](http://www.bdatech.org) is updated regularly. It provides advice on choosing technology and looks at Apps under the following headings:

- Reading options for the device.
- Apps to support reading and study.
- Writing with Text to Speech Options.
- Speech to Text.
- Writing and Writing with Stylus.
- Planning.
- Drawing.
- Scanning and OCR.
- Internet Searches.
- Organisation.
- Creating interactive texts.
- Calculators and Maths.
- Revision.
- Other useful links.

**CALL Scotland**

CALL Scotland, which is based in the University of Edinburgh, provides information on communication and assistive technology for
people with disabilities. It has two very useful resources.

*iPads for Communication, Access, Literacy and Learning (iCall) (2nd Ed.)* is a guide to helpful information and resources for iPads which is a free download at [www.callscotland.org.uk/downloads](http://www.callscotland.org.uk/downloads). Topics addressed are:

- Getting to grips with the iPad.
- Apps to support teaching and learning.
- Accessibility options.
- iPad accessories.
- iPad resources.
- Managing and implementing the iPad.
- Glossary of terms.
- Managing curriculum materials between Windows and the iPad.
- iPad management using iTunes – some useful tips.

*iPad Apps for learners with Dyslexia/Reading and Writing Difficulties* is a visual guide to Apps and is downloadable as a post a4 page. This ‘Wheel of Apps ’is not comprehensive but attempts to identify relevant Apps and to categorise them according to the difficulties faced by the pupil with dyslexia. There is also a similar guide for Android Apps. Dyslexia indicator Apps do not fit within the Wheel, but links to them are given on the page. They are not formal screening tests, but give an indication that a learner may have dyslexia and that this should be investigated. Available for download at [www.callscotland.org.uk/downloads/posters-and-leaflets/ipad-apps-for-learners-with-dyslexia](http://www.callscotland.org.uk/downloads/posters-and-leaflets/ipad-apps-for-learners-with-dyslexia).

There is also a wheel of iPad apps for learners with dyscalculia or numeracy difficulties at [http://www.callscotland.org.uk/common-assets/cm-files/posters/ipad-apps-for-learners-with-dyscalculianumeracy-difficulties.pdf](http://www.callscotland.org.uk/common-assets/cm-files/posters/ipad-apps-for-learners-with-dyscalculianumeracy-difficulties.pdf)

*Dyslexia, Supporting Students* by Jeanette Davies is a free download for the MAC or iPad in the iTunes Store. The information in this multi-touch book is designed to demonstrate how the teacher or parent can utilize the built-in accessibility features of the Mac and iPad to support the student with dyslexia.

*Making the Most of Microsoft Word 2016 to support literacy* This is a guide published by CALL Scotland which shows in a very practical and clear way how to make the most of Microsoft Word to support literacy. For some learners, Word’s ‘Ribbon’ with its multitude of Tabs and features can be overwhelming and difficult to navigate. But with a bit of creative thought and some ‘know how’ Word can be customised to make it more user friendly and support a range of literacy difficulties. The many suggestions include:

- How to customise fonts and background colour.
- Allows the use of different layouts.
- Personalised auto-correct spelling lists.
- Customise Word’s ribbon to reduce the number of tabs.

[www.callscotland.org.uk/common-assets/cm-files/files/Making%20the%20Most%20of%20Microsoft%20Word%202016%20to%20Support%20Literacy.pdf](http://www.callscotland.org.uk/common-assets/cm-files/files/Making%20the%20Most%20of%20Microsoft%20Word%202016%20to%20Support%20Literacy.pdf)

Digital copies of books

Digital copies of books are very useful for the student with dyslexia as it enables them to see and hear the text. The educational publishers make digital copies available. It may be the PDF file of the book with images and graphics stripped out or it may be the eBook version of the text.

However, at the moment there is a problem with the integration of iPad assistive technology software with the eBook version of the Irish textbooks. This means that in some cases the text book cannot be read aloud. The following information is provided by the publishers in January 2018.

CI Fallon

If contacted by teacher or parent, CI Fallon will create and assign an eBook account free of charge for textbooks used in the classroom. If they feel it is being abused, they can revoke the access. The books are same as the printed version. Their full range of books is accessible, so it would be possible to buy revision eBooks. They are working on integration with the iPad assistive technology. At the moment the way to access it is as follows:

- **On iPad, go to Setting >General>Accessibility>Speech** Turn on Speak Selection. Next open a title in your **CIFallonReader app**, go to a page you want to read, next click the settings icon on the top right of screen and click on ‘Text Only’, select the text you want read aloud and from the menu provided click speak.

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EDCO
As part of Edco’s ongoing commitment to the teaching and learning experience and in response to feedback from schools, principals, teachers, students and parents nationwide, Edco have launched a new initiative offering students a FREE e-book with their printed textbooks. Available with many Edco titles, across a wide range of subject areas, the FREE e-book, which comes with a bank of FREE digital resources allows students to access their FREE e-book both at school or at home.

Schools now have the option of allowing students to keep one version of the book at school and the other version of the book at home. Students will be able to access the free e-book by logging onto www.edcolearning.ie/code and entering the unique activation code on the inside front cover of the relevant textbook. At this stage, the indications are that the majority of future publications will also contain a free e-book code. For older copies of books, or for books that do not include the codes, Edco will ask for an application form to be returned to us with proof of purchase of the book and the student’s medical report.

Books can be accessed through the Edco Learning app which is available to download free of charge download from the App Store for iPad, Google Playstore for Android and Windows Store for Windows 8 and Windows 10. Users who want to access the books on a different operating system can do so through the Edco Learning web app which is available at www.edcolearning.ie.

Both the Edco Learning iPad app and the Edco Learning Web App include text-to-speech functionality within the platform itself, a first for any Irish educational publisher’s platform.

Educate.ie
Free eBooks are supplied with the printed version of their books but these do not read the text aloud to the student.

Educate.ie does provide PDF versions of textbooks via download for the benefit of pupils with reading difficulties. The format of the PDF is a full text copy of the book, in the same layout as printed book. Due to copyright, these files are solely for use by the pupil for whom they are authorised. The pupil should have an original printed copy of the book being used in this way.

There is an application form to be completed, which can be returned to Educate.ie via email. There is no additional charge for this service.

Folens
If someone is interested in obtaining digital copies, they should submit a request on Folens’ support line at support@folens.ie. This site has an article How to use iBooks with PDF files which would be of use to parents and students.

Once the request is received and Folens get the information they require from the applicant, they organise a download link using a service called sendthisfile.com. The download link expires after ten days or 3 downloads, whichever comes first, so it is designed to be stored locally on the device and will not be accessible online after 10 days.

The files are secured by copyright protection measures which mean no one is able to print, copy the text, add notes or edit the files.

The files are designed and have been tested to work with Natural Reader and Read Write Gold. The turnaround is usually about 2-3 days. Generally they do not require a letter or assessment.

Gill
They provide digital copies of textbooks. The format is a link sent by email which is clicked to download the PDFs. A CD format is still available on request. PDF files which is accessible for Read-aloud software which can be transferred to iPad or tablet.

They need:
• One page medical cert or psychologist assessment detailing the student’s name and diagnosis.
• Signed copy of their copyright agreement. This can be obtained by phone call or email contact.
It is also possible to open an eBook account and access revision books.

Mentor
It is possible for students to get digital copies of most of the textbooks. Any new textbook either Leaving/Junior Cert will have an eBook version.

New titles from 2016 will come with a free eBook provided by a voucher code on the inside cover. Some of our older titles are not available as an eBook but may be provided as a pdf.
For students with dyslexia to receive a free copy of an eBook they must purchase the textbook. Some information from parents is required before the eBook is dispatched. At present revision/workbooks are not available in eBook format.

At present the eBooks cannot be read aloud on iPad/Tablet. To access a reading aloud, Mentor will provide a pdf and, if the student has software on their laptop, it can be read back.

Courses and online resources
Assistive Technology Videos.
UCC Assistive Technology Outreach Programme offers training to secondary students, parents and educators in the UCC catchment area in how to use assistive technology (AT). They have also made video tutorials on using AT available at www.ucc.ie/en/dss/callouts/resources/videos/.
These include tutorials on the following:
- An overview of AT for writing difficulties
- Mindmapping, an introduction
- Using mindmapping for school work and homework
- Touchtyping advice and resources

Dyslexia Association of Ireland  www.dyslexia.ie
DAI run Tablet Technology and Dyslexia Workshops in their offices in Dublin. The aim of the interactive workshop is to equip individuals with knowledge of how tablet technology and apps can be used to the benefit of people with dyslexia. A range of different apps and tablet features is demonstrated.
FACTSHEET 16: HOW PARENTS CAN HELP THE STUDENT WITH DYSLEXIA

Consistent parental understanding, support and interest are vital components for the student’s progress. They have a major contribution to make in achieving effective outcomes. However the most important contribution which parents make is to provide a safe and reassuring home.

This Factsheet outlines some specific ideas on how parents may help the student with dyslexia. Select the most appropriate as the student’s needs will change over time. Also parents have a limited amount of energy and need to put the time into what supports the student best. For general study skills the Institute of Guidance Counsellors have study guides for each year of secondary school. For example the study guide for First Year students is available at http://careersnews.ie/wp-content/uploads/2017/05/1ST-YEAR-STUDY-LEARNING-TO-LEARN-IGC.pdf.

Tips on organisation of homework

- Negotiate a homework timetable that takes into account any sports or other commitments. Once agreed, put it up in the study area and expect that it will be kept to. The website www.studentenrichment.ie has templates for timetables and goal setting.
- No distractions such as television or mobile phone.
- Homework should be done at a desk/table, with good light.
- Plenty of space with shelves to organise books and files.
- All necessary equipment that help with good filing and multisensory learning such as pens, pencils, crayons, staplers, punches, highlighters, plastic wallets, index cards, etc.
- Show the student how to colour code their timetable with different colours for different subjects.
- Colour coded files/copies, e.g. red for English, yellow for Maths etc. This could be with a tag or colour stripe. Use the same colour for the subject that they have used on the timetable.
- Calendar or planner on the wall with key dates marked in such as deadlines for assignments, exams, projects, as well as sports and other commitments.

Tips on routines

- Ensure that the homework journal is used to take down homework in each class of the day.
- If necessary, the student could write in the names of subjects in the journal the night before to make it quicker to take down homework.
- Get the student to use the homework journal to pack the school bag for the next day.
- If homework has not been entered accurately, does the student have the phone numbers/emails of reliable students who could be contacted.
- Is there a school network which might have homework tasks listed on it?
- Negotiate that the student does a weekly ‘housekeeping’ session where the bag is checked and notes are filed.

Communication with the school

Good communication between the school and parents is an invaluable support and can be fostered by the following:

- Ensure each teacher is aware of the difficulties the student may face. This could be done by sending the summary of the report or key points from it.
- If a teacher is absent for a period of time, send the summary into the substitute teacher.
- If the student does not read fluently aloud, make sure teachers are aware of this before the student enters the school in September in 1st year.
- Monitor the homework journal for teacher comments and use it yourself to communicate with teachers.
- Ask teachers for written notices of events.
- Inform yourself about who is the key teacher to contact about supports such as accommodations in exams or subject choice.
- Inform the school if the student is stressed or homework is taking an excessive amount of time.
- Ask if the student could sit in the front of the class if it helps with concentration.
- Be informed about educational choices such as subject choice at school, types of Leaving Certificate programmes such as the LCA, exemptions from the study of Irish or a third
language, reasonable accommodations in state and school examinations and be ready to act as an advocate for the student to access appropriate supports.

- Suggest through the Parents Association that the school organise an in-service for teachers on dyslexia and/or a talk for parents on how to help students with dyslexia.

**Tips to help with reading**

- Reading is a key skill at second level. Parents can foster it by encouraging the student to read for about 20 minutes every day.
- The school library or local library may have literacy reading schemes with books with content suitable for teenagers but which have been abridged and vocabulary simplified.
- Reading should continue through the summer, otherwise reading is likely to regress.
- Listen to tapes of books on long car journeys so they are not missing out on the stories their peers are accessing through reading.
- Dyslexia Action has published a book Dive in – a book guide for the reluctant and dyslexic readers which gives guidance on books that might engage the reluctant reader as well as a guide for parents called Reading hints and tips for parents of reluctant and struggling readers. Website: [www.dyslexiaaction.org.uk](http://www.dyslexiaaction.org.uk).

**Tips for helping learning**

- Be in the background when homework is being done to monitor that it is done effectively and to help sort any difficulties out. This should reduce as routines become established. Is the homework of good quality? Is the layout and writing clear?
- Help them develop memory strategies. Students with dyslexia must make the material ‘their own’ to get it into long term memory. Receiving information in one channel such as language and expressing it in another such as a mindmap helps information transfer from working to long-term memory. Possible learning activities include talking, listening, debating, answering questions, drawing timelines or mind-maps, visualising, creating mnemonics or making up cards with key facts.

- If there are difficulties, don’t do the homework for the student. Teachers need to be aware if students cannot cope.
- If teenagers are not feeling confident, they may be defensive and reluctant to accept help. Ask them for their ideas on how you can help. Possible strategies to help include:
  - Test new vocabulary which has been learnt.
  - Listen to the student explain a new topic which has been learnt.
  - Ask questions based on the textbook or revision book.
  - Help with the planning of an essay.
  - Show them how to make clear concise notes with bullet points, colour, numbering of points and headings. Then make sure the notes are filed.
  - Get tapes of texts for English, so that they can hear and read the text at the same time. The educational publishers make digital copies of textbooks available. (See Factsheet 15).
  - Revision books can help by giving access to keypoints for learning. There are also websites that have on-line tutorials and revision notes available in different subjects. They are listed on Factsheet 17 for students.

**Tips for home life**

- Help the student be organised in the house. Have consistent routines. Make lists of jobs and chores to be done.
- Keep a masterfile where all the school reports and assessments are held. The assessment report is an important document and may be needed in future years.
- Be informed about dyslexia, read books, attend lectures or courses and talk to professionals so you are aware of what is available and can help.
- Encourage the development of keyboarding skills.

**Assistive Technology**

Assistive Technology (AT) gives invaluable support. See Factsheet 15. There is so much hardware and software available that it is easy to be overwhelmed by the choice.

Enable Ireland AT Service and the Dyslexia Association of Ireland have collaborated to produce a free learning resource called Study Smart outlining free and low cost apps and software to support literacy. To access the module just follow the link below [http://atcourse.org/nala-national-forum-for-adult-literacy-tutors-2016/](http://atcourse.org/nala-national-forum-for-adult-literacy-tutors-2016/).
Ask teachers for advice or get a demonstration/free downloads to find out what is most appropriate and useful. These websites help: www.dyslexia.ie, www.bdatech.org.uk and www.callscotland.org.uk

UCC Assistive Technology Outreach have online videos showing how to use Assistive Technology at www.ucc.ie/en/dss/atoutreach.

Dyslexia Association of Ireland (www.dyslexia.ie) has courses on AT.

**Tips for developing self esteem**

Self-esteem means young people feel competent and, when faced with new challenges, they feel that they can achieve. It is fostered by taking interest in their activities and giving genuine praise for achievement.

- Encourage them to partake in activities that will yield success. Focus on their strengths. It might be in sports, drama, music, art, scouts, or voluntary social activities.
- Spend family time together where they contribute and are listened to. Family discussions over meals or on outings can promote social skills and verbal expression. Watch TV programmes, films or the News together and give them an opportunity to express their opinions. Board or interactive games will help develop communication skills, problem solving and decision making.
- Ask them to contribute to decisions about planning holidays or home decoration.
- Be open about the fact the student has learning difficulties. Reassure them that they can talk to you and you will listen and try to help.
- Discuss the assessment with them, judging the amount of information that is appropriate for their stage of development and how much they will understand. By the end of second level they should know how the dyslexia affects their learning and their learning strengths and weaknesses. They will need this information to be able to make appropriate decisions and to maximise learning.

**Key dates**

**Beginning for First Year**

- Give all teachers a profile of the student’s abilities, strengths and weaknesses along with the recommendations on the report. Do this every year. Also send it in to the replacement teacher if a teacher is going to be absent for any length.

- Discuss with the school if reasonable accommodations are an appropriate support for the student. If they are, check they are in place for house examinations.

**Third Year**

- Applications for reasonable accommodations (RACE) in Junior Certificate examination will be made in the first term of 3rd year.
- If the student has been granted accommodations for the Junior Certificate, check that they are in place for the Mocks in February.

**Third Year or Transition Year**

- Apply to NUI (National University of Ireland) for 3rd language exemption if appropriate. If the student is exempt from the study of Irish because of a specific learning difficulty, the third language exemption will be granted. If not exempt from the study of Irish, the criteria for the 3rd language exemption are that the student is at or below the 10th percentile (standard score 81) in two literacy areas.

**Sixth Year**

Students may be admitted on their course of choice with lower Leaving Certificate points than those set by the CAO through the DARE system. Full information on the system is available at www.accesscollege.ie. The reduction in points can vary every year and is dependent on a number of factors, such as:

- The number of places on the course
- The number of reserved DARE places on the course
- The number of DARE eligible applicants competing for these reserved places.

Colleges use different ways to allocate places. Information on this and on the number of DARE places of individual courses in a college is available at www.accesscollege.ie/dare/participating-colleges/

It is the student’s responsibility to ensure that the CAO are aware of the existence of language exemptions.

Applications for RACE should be made in the first term of 6th year.
FACTSHEET 17: STUDY TIPS FOR STUDENTS WITH DYSLEXIA

Dyslexia may mean that you learn in a different way. While dyslexia may affect your reading, writing and spelling, it might also be hard to remember new information or to be organised. Even when you work harder than others in the class, it may be a struggle to get good results. You may know more than you can put down on paper. The assessment report shows learning strengths and weaknesses. Using your strengths, it is possible to find alternative ways to learn. Pick out what will work for you from the tips below.

Your teachers are there to support you. Ask them for help and advice. There is a form called ‘Asking for Help’ which is available on the download section of the website www.dyslexiacourses.ie. This helps you pinpoint exactly what supports would help in the classroom so you can ask the teacher for them.

**Organisation.**
- Study at a desk/table with plenty of room, shelves for files and books and with all necessary equipment present, such as staplers, highlighters, colour pens, etc.
- Take small breaks during the study period.
- Colour code the subjects in your timetable.
- Use the same colours for your files/copies, e.g. yellow for English, red for Maths.
- Have a ‘housekeeping’ day once a week where bags are cleared and notes are filed. If necessary, include the organisation of your locker in school.
- Always put the subject, date and topic as a heading on notes. Don’t fold them.
- Have no distractions in study area such as TV or mobile.
- A calendar on the wall, with key dates for exams, school work, sports and social life.
- Study/revision timetable on the wall. This should be one that you can keep to. The website www.studentenrichment.ie has templates with blank timetables.
- Use the homework journal to take down homework and to pack the bag for the next day.
- Build in rewards for meeting goals, such as small treats like a small break or cup of coffee.
- Set clear goals. Long term goals are key life objectives such as getting the points for your chosen course in college. Medium term goals are the stages in getting to that point such as results in house exams. Short term goals are for this evening’s study period. SMART goals help use study time in the most effective way. Again the website www.studentenrichment.ie has templates for long, medium and short term goal setting.

**SMART Goals**
SMART goals are:
- **Specified:** Sets out exactly what is to do and when.
- **Measurable:** Criteria for knowing you have achieved the goal.
- **Action based:** What are the actions you need to do?
- **Realistic:** It is possible for you to achieve the result within the time.
- **Time-based:** Sets the time frame to achieve the goal.

Instead of a goal such as ‘To read over the chapter on the Reformation three times’, SMART goals are statements such as:
- To learn 15 new words in French, their gender and spelling. (20 minutes)
- To learn 5 reasons for the Reformation, 6 key facts about Luther’s life and 5 key beliefs he had. (25 minutes)
- To draw a picture of a microscope and label the ten key parts of it. (25 minutes)

**Motivation**
- Study at the same time and in the same place so a routine is established.
- A tidy and organised study area helps you settle. It also avoids wasted time looking for items.
- Have a ‘to do’ list on the wall, so if you think of something, you can write it down. Have a revision plan detailing all topics for revision for an exam. Mark them off as you revise and see your progress.
- Motivation grows on success, so planning and meeting targets will encourage you.
- Use multi-sensory methods to learn. This means activities such as writing, highlighting, talking or making mindmaps. It is harder to be distracted if learning is activity based.

**Reading**
Reading is a key skill for second level and for college.
- Reading improves, the more you read. Reading regularly will develop reading
stamina, speed and comprehension. Read for 20 minutes a day as a routine. Find reading material that you are interested in whether it is newspapers, magazines or books.

- If it helps, use a ruler to keep your eye on the line of text. Have a pen or highlighter in your hand.
- It reduces errors in reading if you say the words quietly to yourself. This way you see and hear the words on the page. Particularly useful in the stress of the exam.
- Ask for advice if you are given lengthy reading lists so you can identify the key texts to read.
- Get tapes of English texts so you can listen as well as read the text. Look at the websites listed at the end of this Factsheet. There are video summaries of Shakespearian plays and No Fear Guides which have the original text and a modern English translation side by side. There are revision notes and on-line tutorials in lots of subjects.
- Use a reading method for texts such as SQ3R.

**SQ3R Reading Method**

SQ3R stands for Survey, Question, Read, Recite and Review and is a reading method to improve comprehension. It involves the following steps.

- **Survey** the text by looking at title, headings, pictures, opening and closing paragraph.
- **Question** what you expect to know after reading the text.
- **Read** actively looking for answers to your questions.
- **Recite**. See if you can answer the questions raised. The more senses involved in reciting, the more likely the learning is stick. Triple strength learning involves seeing, saying and hearing. Quadruple strength learning involves addition of writing.
- **Review**. In the following days and weeks check you can still answer the questions.

**Spelling/Vocabulary**

- Have a dictionary to help with new vocabulary. Put a tab for each section beginning with a new letter and have a bookmark with an alphabet on it so you can find words easily. Newer dictionaries have the alphabet printed on each page.
- Develop mnemonics for spelling words you confuse.
  - Dilemma: Emma has a dilemma.
  - Separate: There is a rat in separate.
- Keep a vocabulary notebook for each subject.
- Become a word detective. Lots of longer words come from Latin and Greek. If you understand their meanings, you may be able to understand new words you might come across. For example, if *aqua* = water, *phobia* = fear, *hydro* = water, *bi = two, lateral = side, --cide = killing, you might be able to guess the meaning of the following:
  - Aquaphobia, hydrophobia,
  - Hydrotherapy,
  - Bilateral, multilateral,
  - Herbicide, infanticide, insecticide.

This is particularly relevant to Science subjects such as Biology.

**Notetaking**

- Revision books can help if you find it difficult to summarise textbooks.
- Can you bypass taking notes in class so you can concentrate on understanding what is being said. This can be done by photocopying the notes of another student or ask the teacher for notes.
- When taking notes, mark words you cannot spell and move on. Ask the teacher later.
- Go over the notes that night, and redo them if legibility is a problem.
- Ask for time to take notes/diagrams in class. Any possibility of taking a photo with your phone?
- Use plenty of space, headings, colour and bullet points when making notes.
- Take time to make good notes/mindmaps as they can help in structuring answers.
- Graphic Organisers and Mindmaps help organise your thinking, help when learning/memorising material and then help in structuring written answers. The Assistive Technology Outreach Service at UCC has online videos showing how to make use of mindmaps. [www.ucc.ie/en/dss/atoutreach](http://www.ucc.ie/en/dss/atoutreach).

**Learning**

- Facts/notes need to go from short term into long term memory. This involves hard work to make the material your own. This does not happen by reading alone. It means changing the channel the information comes in by talking, listening, debating, drawing, visualising, writing or making mindmaps or flashcards.
- You need to understand what you are learning as rote learning is not likely to work for you.
- If there are specific facts, dates, definitions or words to be learnt, make study cards with the new word on one side and the explanation on the other side. Keep them in a box and test yourself often.
- Mnemonics are devices for helping to memorise key facts. An example is FATDAD.
(Fermanagh, Antrim, Tyrone, Derry, Armagh, Down) for the 6 counties of Northern Ireland or Richard of York gave battle in vain (Red, Orange, Yellow, Green, Blue, Indigo and Violet) for the colours of the rainbow.

- Visualisation means making a mental image of a text, making pictures in your mind’s eye. Here is an example. The colours in the wires in the electric plug are blue, green/yellow, and brown. See the image of a Teddybear (brown for the live wire,) on green grass (green for the earth wire) and a blue sky (blue for the neutral).
- It is only possible to memorise a limited number of unrelated facts, so organising a list of facts into groups help.

Writing
Writing involves so many tasks, which the student with dyslexia finds difficult, that there is often a mismatch between oral and written work. Written answers may be too short, lack fluency or do not answer the question asked. When you concentrate on the writing rules such as spelling, handwriting and punctuation, ideas suffer. When you are thinking and making interesting connections, the writing skills suffer. Divide the task into five stages.

1. **Understanding the question.** Take time to analysis the question and understand what is being asked. This is important. Very often students with dyslexia will start to write everything they know about a subject down, rather than using their information to answer the question being asked.
2. **Brainstorm.** With an empty sheet of paper, put down all ideas that come into your head with your mind running free and making associations.
3. **Planning.** Using the brainstorm, select and connect ideas. Plan and structure the answer. The plan will display pattern of the essay as a whole, and where different points are linked. It is easy to see the balance and sequence of the essay. Include references and points to be made. Templates which show how to structure an answer help with planning. Examples are available with Inspiration Software. See www.dyslexiacourses.ie under downloads for English Paper 1 Tips.
4. **Write.** Now that thinking has been done, the task is to write. The comprehensive plan keeps your writing to the point. Use signposts for the reader to understand the structure such as words like ‘however’, ‘next’, ‘finally’. Don’t stop for spelling at this stage. Get your ideas down.
5. **Check.** Proofread three times, once for spelling, once for punctuation and paragraphing, and once to check the content is to the point and well structured.

Here are some ideas which might help with writing.

- Make up one key character and two other people in his/her life. Imagine the person in great detail such as how they look, clothes, hobbies, family, school, jobs, good and bad habits, friends, opinions etc. Even collect photos of what they might look like. It makes it easier to compose a short story if you have the characters already in your head.
- Use your five senses when writing a description of a scene.
- When answering questions think of 3 points to support your answer, then 2 references /quotes to back up each point.
- Have checklists of points to prompt you to write more. For example when writing about a person in history, think about clothes, food, farming, houses, rulers, religion, schools, beliefs, death. If the question asks is a text humorous, here is a list of points as a checklist.
  - Exaggeration
  - Puns
  - Making fun of one’s self
  - Double meanings
  - Irony
  - Black Comedy: making fun of serious issues
  - Misdirection/surprises

Revision

- Students with dyslexia do not cram for exams well. A good revision programme avoids the feeling of being overwhelmed.
- The first step in preparation is to know what is coming up in the exam. Ask teachers for the topics which are to be examined. Check you have the necessary sets of notes, text books and revision books. Make out a master sheet of what has to be done in each subject. Mark
off topics as you revise and you see the progress you are making.

- Make out a revision timetable showing each day of the week and the time allocated to study. Then allocate subjects to these times. Ensure that you have time for all your subjects over the week.

- Get up early the morning of an exam and revise from 6.00 am to 8.00 am. It means the information is fresh in your mind.

- Revision is an active process and involves hard work. The multi-sensory methods of seeing, hearing, listening and writing all help the retention of material learnt.

- Be familiar with past examination papers and how questions are framed. Practise answering questions. When examiners correct papers, they have a marking scheme which shows them what to look for and award marks on the paper. These schemes are available for students to look at on website www.examinations.ie under Examination Material Archive.

### Useful websites for students on study skills, revision notes and exam preparation.

#### General sites

- **www.sparknotes.com**
  - A range of literature study guides including a wide range of Shakespearian plays and many novels.
  - A number of animated video guides to some of the plays (Hamlet, Macbeth, Othello, Romeo and Juliet, etc.) and some novels (To Kill a Mockingbird, The Adventures of Huckleberry Finn, 1984 etc.).
  - There are also No Fear Guides for some of the plays (Merchant of Venice, King Lear, Macbeth, Hamlet, etc.) and some novels. These provide the original text on one half of the page, with modern English language version on the other half of the page.
  - There are study notes on subjects such as Biology, Chemistry, Economics, Physics, History and Maths. It includes a section on poetry with specific poets such as Dickinson, Donne, Eliot, Frost, and Yeats.

- **www.shmoop.com** Shmoop is an American site whose slogan is ‘We speak student’. This refers to a relaxed form of English which is easy to understand. There is a free version which gives access to learning guides in English, Maths and Science. In the Maths section it covers Algebra, Geometry and Calculus. In Science Physics, Biology and Chemistry are covered. The English section covers Grammar, Poetry, well-known novels and bestsellers, and Shakespeare. There is a premium subscription costing $24.68 a month.

- **www.studentenrichment.ie** Study tips, templates for goals setting and timetables, links to revision sites.

- **www.studynotes.ie** Includes revision notes, flashcards for key vocabulary, lists of key quotations, videos for JC and LC in a wide range of subjects. There are short animated video summaries based on Spark notes.
of Hamlet, Macbeth and Romeo and Juliet. Poems in the Irish syllabus are read aloud.

www.studyclix.ie
This site provides an analysis of past papers in the LC and JC by topic as well as the marking schemes. It also has notes and videos on different topics. However basic access to 2 questions and 2 marking schemes is free. Otherwise it is €35 or €55 depending on the package bought.

Subject specific websites

Art History
www.pdst.ie/node/4141
This link has powerpoint presentations on different topics from the History of Art course for LC.

Business, Accounting, Economics
www.egs.ie/business.html
East Glendalough School has a section on business, economics and accounting. In business there are the questions by topic, mindmaps and cue cards (flashcards). The cue cards only work on windows. In economics there are key notes.

www.thebusinessguys.ie
Free Leaving Certificate notes in business, accounting and economics. Signing up to their mailing list means the student will receive a monthly newsletter during term-time, focusing on one key topic in each of the three Business subjects.

English
www.connemarafm.com/education-programmes/
Connemara FE has podcasts under the heading The West Wind Blows for Leaving Certificate subjects such as English, Chemistry and French. There are podcasts on key poets and some Shakespearian plays.

www.sccenglish.ie
Website for St. Columba’s English Department. It covers poetry, drama, essays and includes podcasts on key texts for the LC such as Hamlet, King Lear and MacBeth. An example is Podcast 21 which is the third in a series of 6 podcasts on King Lear which are about 10 minutes each. This Podcast features 10 quotations and examines the quotations as key moments in the play, linking them to the rest of the text and prompting fresh reflection on the themes and characters. Podcast 24 is about patterns in poetry.

Geography
www.lcgeography.preswex.ie
Website designed for the Geography students in Presentation School Wexford, but has grown to help all students studying Geography at LC level. (If the above link does not open, search for Leaving Certificate Geography Presentation Wexford).

History
www.leavingcerthistory.net
Website for the Leaving Certificate History class in St. Patricks Comprehensive School, Shannon.
www.historymatters365.com
This website has been created as a resource for Irish secondary school history students and teachers. The site is a mix of videos, images, notes, links, inter-activities, a blog, etc.

Home Economics
www.resources.teachnet.ie/homeeconomicshelper
Resources for JC and LC Home Economics

Languages
www.duolingo.com
This site provides interactive learning of languages in progressive stages with writing and speaking exercises. Languages include Irish, French, Spanish, German and Italian.

www.memrise.com
Memrise focuses on teaching languages to students and uses visual flashcards to help them remember words and phrases for many different languages. Although the app focuses on languages it can be used to learn geography, history and sciences.

www.rte.ie/exams
This website has links to French and German newspapers and radio stations.

Maths
www.alison.com
Free on-line course in Project Maths with video tutorials of lessons at JC and LC levels in both ordinary and higher levels. The site also covers topics in Physics and Chemistry.

Science
www.thephysicsteacher.ie
Study notes in JC Science, LC Physics and Applied Maths with some material on Biology.
www.juniorcertscience.com
Notes and resources for Junior Certificate Science.

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FACTSHEET 18: USEFUL RESOURCES

These resources are grouped under the following headings:

- Essential publications for every staffroom.
- Subject specific resources on Dyslexia for mainstream teachers.
- Resources for teachers and students in Irish medium schools.
- Resources on literacy/working memory/study skills.
- The Dyslexia Friendly School.
- Government publications.
- Dyslexia Association of Ireland publications.
- Useful websites.
- Youtube videos.

**Essential publications for every staffroom**
National Behaviour Support Unit: [www.nbss.ie](http://www.nbss.ie) *Literacy and Learning Programme and Resources*

**Subject specific resources on Dyslexia for mainstream teachers**

*Dyslexia – Successful Inclusion in the Secondary School* Eds. L. Peer & G. Reid (2001) British Dyslexia Association (available on Amazon). It includes chapters on the following subject areas:
- Art and Drama
- Biology
- Foreign Languages
- Geography
- History
- Maths
- Music
- Physics

**Dyslexia Scotland South East**

This website has booklets for subject teachers on how to support students with dyslexia in their subject. The following are available for £50 for the set from [www.cpdbytes.com/sdl](http://www.cpdbytes.com/sdl)
- *Dyslexia and Art, Craft & Design*
- *Dyslexia and Drama (Performing Arts)*
- *Dyslexia and Health & Food Technology (Home Economics)*
- *Dyslexia and ICT subjects (Computing Studies, Business Education, Enterprise)*
- *Dyslexia and Mathematics*
- *Dyslexia and Modern Foreign Languages*
- *Dyslexia and Music*
- *Dyslexia and Physical Education (Outdoor Education, Sports, Games, Dance)*
- *Dyslexia and Science subjects (Biology, Chemistry, Physics)*
- *Dyslexia and Social subjects (Geography, History, Modern Studies, Philosophy, Religious Studies)*
- *The Classics (Latin, Classical Greek, Classical Studies)*

**NCCA Guidelines for Teachers of Students with Mild General Learning Disabilities: Post-primary**

While the Guidelines are for teachers of students with mild general learning difficulties, there are
strategies that might be helpful for other learning difficulties. Available at www.sess.ie. The subjects covered include:

<table>
<thead>
<tr>
<th>CSPE</th>
<th>Irish</th>
<th>History</th>
<th>Home Economics</th>
<th>Maths</th>
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<tbody>
<tr>
<td>Music</td>
<td>P.E.</td>
<td>Religion</td>
<td>Science</td>
<td>SPHE</td>
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<td>Visual Arts</td>
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</tbody>
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**Supporting Students with Dyslexia: 100 Ideas for Secondary School Teachers** Reid G. & Green S. (2016) London: Bloomsbury. Designed for busy secondary school teachers, this book is packed with tried-and-tested activities to be integrated into lessons plans. There are ideas specific to subject areas including:

<table>
<thead>
<tr>
<th>English</th>
<th>History</th>
<th>Geography</th>
<th>Maths</th>
<th>Music, Drama, Art</th>
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<tbody>
<tr>
<td>Science</td>
<td>Biology</td>
<td>Languages</td>
<td>P.E.</td>
<td>Food Technology</td>
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**Design and Technology**

**Dyslexia and Design & Technology** Frances Ranaldi: British Dyslexia Association (available on Amazon)

**Maths**

*Maths Learning Difficulties, Dyslexia and Dyscalculia* British Dyslexia Association £5 available through BDA website


**Languages**

Free online course on dyslexia for language teachers. Provided by Futurelearn by Lancaster University. Details: [www.futurelearn.com/courses/dyslexia](http://www.futurelearn.com/courses/dyslexia)

*Dyslexia and Foreign Language Learning* Schneider, E. & Crombie, M. British Dyslexia Association (available on Amazon)


**Music**

*Music, Other Performing Arts and Dyslexia* Ed. S. Daunt British Dyslexia Association £5 available through BDA website

**Physical Education**

*Dyslexia and Physical Education* M. Portwood: British Dyslexia Association (available on Amazon)

**Science**


**Resources for teachers and students in Irish medium schools**

Department of Education and Skills

*Guidelines for Post Primary Schools: Supporting Students with Special Educational Needs in Mainstream Schools* Appendix 4 is for Irish-medium schools (Pages 39 to 41)


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Websites
www.stmarys-belfast.ac.uk/aisaonad/Fonaic/Fonaic_na_Gaeilge.html
www.education.ie/pt/ptsn/ptsnrganiser%20Gaeilge%20Final.pdf

Celtic Press Essential Unfolded Guides Key notes for Students
Leaving Cert Junior Cert
Ceimic **** Eolaiocht ****
Bitheolaiocht ****
Fisic ****

Resources for literacy/memory/study skills
Buzan, T.  Use your Memory London: BBC Worldwide

Resources for the dyslexia friendly school
The British Dyslexia Association have published the guide below on the dyslexia friendly school. www.bdadyslexia.org.uk/common/ckeditor/filemanager/userfiles/Educator/Resources/dfs-gpg-abridged.pdf

Government Publications
Guidelines for teachers of students with General Learning Difficulties NCCA (2007)
Inclusion of Students with Special Educational Needs, Post Primary Guidelines (2007)
Signposts SESS (2008)
A Continuum of Support for Post-primary Schools, Guidelines for Teachers NEPS (2010)
A Continuum of Support for Post-primary Schools, Resource Pack for Teachers NEPS (2010)
Delivery for Students with Special Educational Needs, a better and more equitable way NCSE (2014)
Effective Interventions for Struggling Readers, a Good Practice Guide for Teachers NEPS (2012)
NEPS Guidelines, Handouts and Tips for Teachers and Parents NEPS (2015). This publication includes sections on visual perception, working memory, thinking skills and metacognition.
Guidelines for Post-Primary Schools: Supporting Students with Special Education Needs in Mainstream Schools DES (2017)

Dyslexia Association of Ireland Publications
All Children Learn Differently: A Parent’s Guide to Dyslexia
Living with Dyslexia: Information for Adults on Dyslexia
What’s Good for Dyslexia is Good for All: A guidelines for those working in the Further Education sector in Ireland (2016)
Useful Websites
Organisations
www.dyslexia.ie Dyslexia Association of Ireland
www.dyslexiacourses.ie Dyslexia Courses Ireland
www.pdst.ie Professional Development Service for Teachers
www.sess.ie Special Education Support Service

Websites for resources
www.bbc.co.uk/skillswise Literacy and Numeracy resources
www.becpublishing.com The JCSP resources are available at this site.
www.beingdyslexic.co.uk Support for students and adults with dyslexia
www.dyslexiaaction.org.uk Dive in – a guide to books for reluctant and dyslexia readers
www.elsp.ie English Language Support Programme
www.jcsp.ie Junior Certificate Schools Programme
www.nbss.ie National Behaviour Support Service
www.nce-mstl.ie National Centre for Excellence in Mathematics and Science Teaching and Learning
www.nrich.maths.org The Nrich Maths Programme

Useful websites with information on the use of technology in education
www.bdatech.org British Dyslexia Association
www.ncte.ie National Centre for Technology in Education (NCTE)
www.callscotland.org.uk Call Scotland
www.dyslexic.com iAnsyst Ltd.

Youtube Videos
• Dyslexia explained – what it is like to be dyslexic (7 Mins) good for primary school.
• Hidden Potential – Short (11 minute) video from the Dyslexia Association of Ireland.
• How difficult can this be? Or FATCITY-Dyslexia. This puts the viewer in the situation of experiencing difficulties similar to those the student with dyslexia faces.
• Left from Write (2014) which shows the experience of people with dyslexia in Ireland.
• See Dyslexia Differently – Short (3 minute) video from the British Dyslexia Association which could be used with class groups to explain dyslexia.

On-line library
Special Education Support Service www.sess.ie has an on-line library available to teachers. Schools register by paying €30.