

3.14 Forces

Name:.....

1. Using the words in the list, complete the sentence.

Newton's *push* *direction* *pull* *speed*

A force is a _____ or a _____ that changes the shape, _____ or _____ of an object. It is measured in _____.

2. Draw a diagram of a spring balance.

Describe how it is used: _____

3. What is friction? _____

4. (i) Give one everyday example of where friction is useful. _____

(ii) Why is friction useful in your example? _____

5. Rearrange the following letters to discover what we can use to reduce friction.

B U R N I T A L C Answer: _____

6. Using the list below, circle the surfaces with high friction.

bus tyres *sandpaper* *ice* *football boots* *wet soap*

7. Describe two advantages and two disadvantages of living in a world without gravity.

Advantages:

(1) _____

(2) _____

Disadvantages:

(1) _____

(2) _____

8. Using a diagram to show your idea, design an experiment to show that forces often act in pairs.


