

3.12 The Atom

Name:

1. Can gold be broken down into simpler substances by chemical means?

2. What type of atoms is a sheet of copper made from? _____

3. Underline the correct word in the following list to complete the sentence. Atoms are extremely _____:

heavy

small

rare

4. The three types of sub-atomic particle are _____ ,
_____ and _____.

5. Which two sub-atomic particles are found in the nucleus of the atom?
_____ and _____.

6. Match each sub-atomic particle below with its charge by drawing lines between them.

neutrons

(i)

(a) *positive*

electrons

(ii)

(b) *neutral*

protons

(iii)

(c) *negative*

7. Complete the following table to give the mass, charge and location of the three sub-atomic particles.

Sub-atomic particle	Mass	Charge	Location
			Inside nucleus
		neutral	
	1/1840 a.m.u.		