Chapter 6: periodic table.
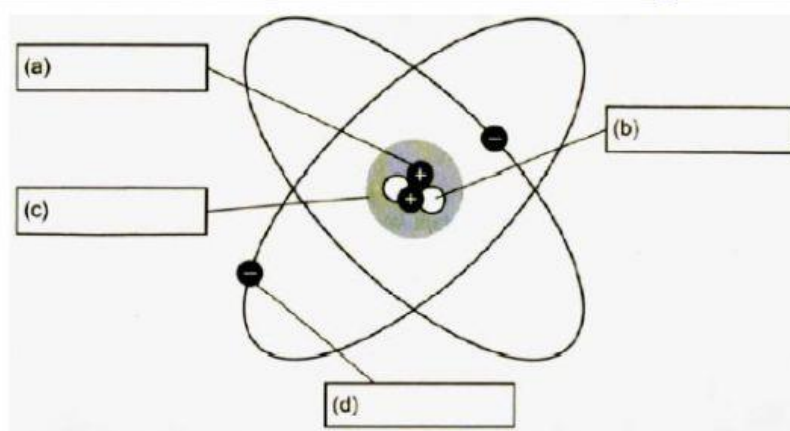
Classification of elements.

1. complete the statements below.

Matter (solid, liquid, gas)

➡️

Consists of small and discrete particles called as_____.

⬇️

Atom is consists of three subatomic particles which are

(a) _____ (b)_____ (c)_____

⬇️

Characteristic of subatomic particles:

(a) electron : _____

(b) proton: _____

(c) neutron :_____

⬇️
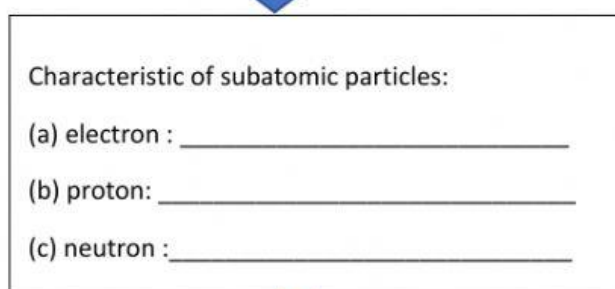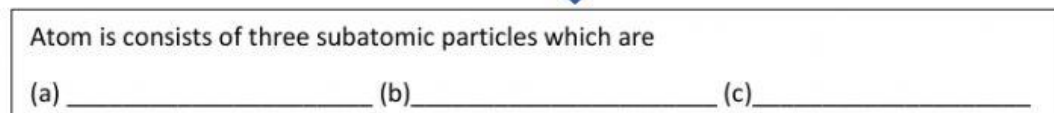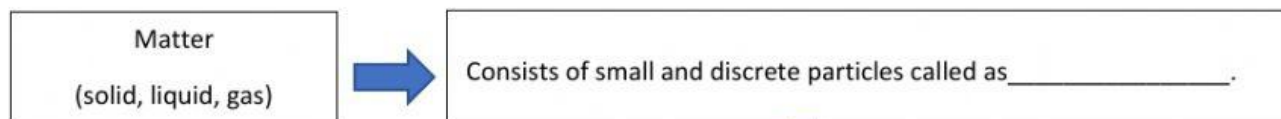
(a) _____ and _____ are found in the nucleus of an atom.

(b) _____ surrounds the nucleus.

(c) The nucleus has _____ charges due to the positively-charged proton in it.

(d) Number of proton = number of electron. Hence, an atom is _____.

⬇️

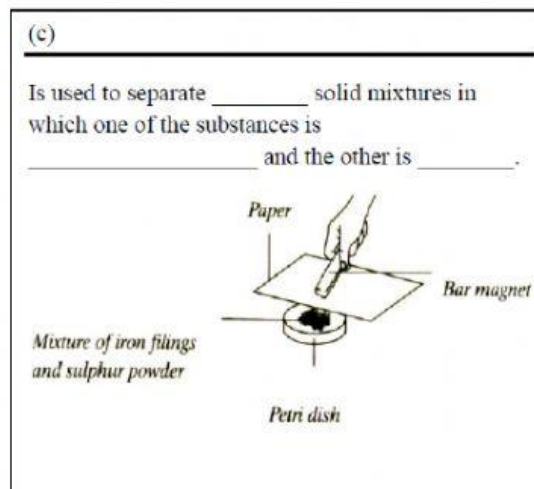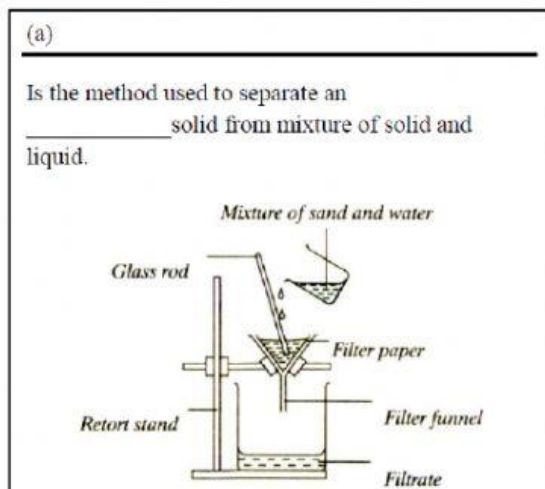_____ are neutral particles made up of _____or _____atoms.

Metals and non-metals

1. Compare the characteristic of metal and non-metal

Metals	Similarity	Non-metals

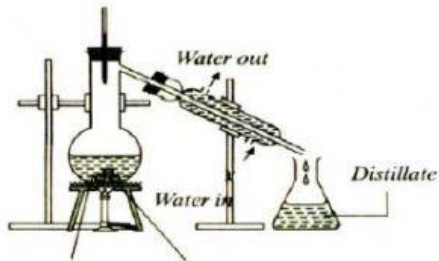| Metals	Characteristics	Non-metals
	Surface properties	
	Ductility	
	Malleability	
	Tensile strength	
	Electrical conductivity	
	Heat conductivity	
	Melting and boiling point	
	Density	

6.2. Mixture

1. Mixture consists _____ or _____ elements or compounds mixed.

2. As the mixture is formed physically, it can be separated _____too.

METHOD TO SEPARATE

(a) _____

Is the method used to separate an _____solid from mixture of solid and liquid.

Mixture of sand and water

Glass rod

Filter paper

Retort stand

Filter funnel

Filtrate

(c) _____

Is used to separate _____ solid mixtures in which one of the substances is _____ and the other is _____.
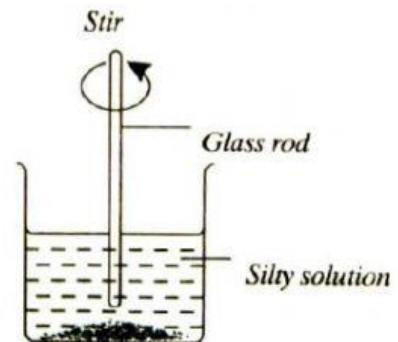
Paper

Bar magnet

Mixture of iron filings and sulphur powder

Petri dish

(b)

Is the method separate a completely
_____ liquid-liquid mixture that have
different boiling points.

Water out

Distillate

Water in

Alcohol and water   Porcelain pieces

(d)

Is used to separate a liquid and
_____ solid mixture.

Stir

Glass rod

Silty solution

(e)

Is used to separate_____ and
_____ materials in water.

Separating funnel

Oil

Water

Retort stand

Beaker

Water
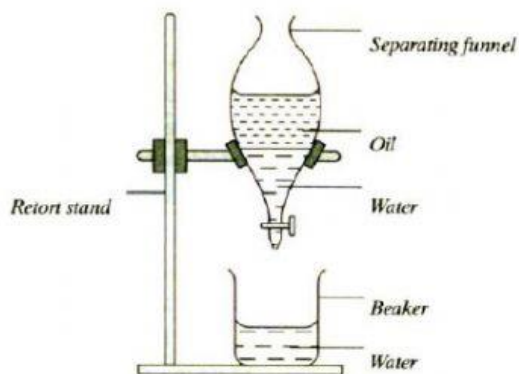
(f)

Is used to separate _____ amount of
mixture, for example separating the
_____ from the ink used.

Wooden sheet

Pin

Filter paper

Beaker

Ink spot

Water   Initial

Water   Final