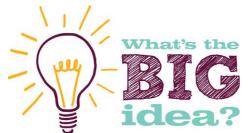
You need to know the content of this sheet. 100%

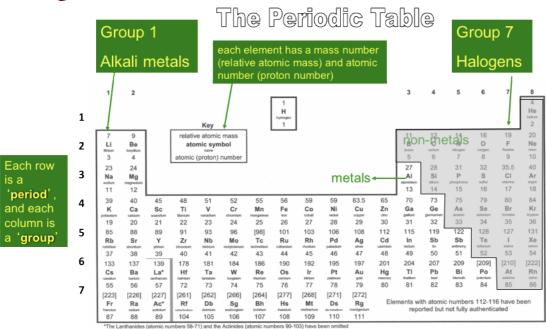
100% Sheet The Periodic Table



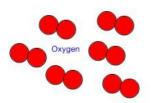


Matter

All material in the Universe is made of very small particles.

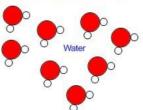


Element



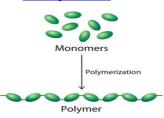
Elements: What all substances are made up of, and which contain only one type of atom.

Compound



Compound: Pure substances made up of two or more elements strongly joined together.

Polymer



Polymer: A molecule made of thousands of smaller molecules in a repeating pattern. Plastics are manmade polymers, starch is a natural polymer.



Mendeleev arranged the elements in 2 ways.

He listed them in order of their weight.

He then grouped elements that had similar properties together.

A group on the periodic table has elements that are similar to each other but different to the elements in a different group.

100% Sheet The Periodic Table





Matter

All material in the Universe is made of very small particles.

The list below shows properties that different elements can have.

- magnetic
- can be compressed very high melting point
- very low melting point
- good conductor of heat poor conductor of heat
- good conductor of electricity
- poor conductor of electricity
 Which **two** properties from the list above make aluminium suitable for saucepans?
- Which property in the list above explains why:
 - copper is used in the cable of a television?
 - a lot of oxygen gas can be pumped into a very small container?

The diagrams represent the arrangement of atoms or molecules in four different substances, A, B, C and D.



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Each of the circles, O, O and Prepresents an atom of a different element

- (a) (i) Which substance is a compound?
 - Which substance is a mixture?
 - Which two substances are elements?
 - Which two substances could be good thermal conductors?
 - (v) Which substance could be carbon dioxide?

Gold, iron and magnesium are elements which conduct electricity.

Sulphur and phosphorus are elements which do not conduct electricity.

When iron and sulphur are heated together, they react to form a new substance called iron sulphide. From the substances named in the box on the left, give:

- the name of a metal;
- the name of an element which is a non-metal;
- the name of an element which will rust;
- (iv) the name of a compound.

Working Towards