

The use of decimals in Chemistry

These are the mass in grams of each particular element in 1 mole of substance

Hydrogen: H: 1.00794g

Deuterium: D: 2.0136g

Carbon: C: 12.011g

Nitrogen: N: 14.0067g

Oxygen: O: 15.9994g

Sodium: Na: 22.990g

Silicon: Si: 28.090g

Sulphur: S: 32.0855g

Chlorine: Cl: 35.452g

Iron: Fe: 55.845g

Group discussion

Work out which of the diagrams below represents:

- a) What we breath b) Heavy water c) Sodium Chloride d) Water
e) Sand f) Rust g) Sulphuric Acid

Now, cut out and stick the following molecules into your book and work out the mass of one mole of each molecule.

