

Knowledge



1. 23
2. Add the mass numbers of all the atoms in a compound together
3. 16 101
4. It stays the same
5. Solid, liquid, gas, aqueous solution
6. 1000
7. Concentration = Mass/Volume

Application

1a) 111

1b) 36% - (40/111 x 100)

1c) $36/100 \times 50 = \underline{18g}$

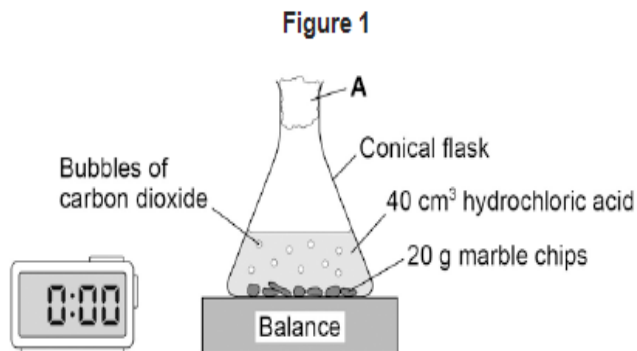
2. That no atoms are made or destroyed during a chemical reaction – mass remains the same

3. If a gas is given off or something reacts with a gas in the air (usually oxygen)

4. The mass of a substance dissolved in a certain volume of liquid

5. $300 - 168 = 132g$

6.



b) In equation

c) Stops acid spraying out of the flask (NOT the gases)

d) Uncertainty = range / 2 range – 8.6-8.2 = 0.4

$$0.4/2 = 0.2$$

So uncertainty = 8.4g +/- 0.2g

7. Concentration = mass/volume

$$\text{volume} = 200/1000 = 0.2$$

$$35 / 0.2$$

$$\underline{175\text{g/dm}^3}$$