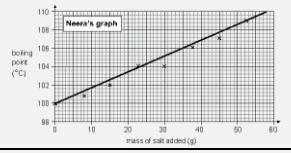
1.1 - Lab Equipment	
Mass Balance	Measures the **mass** of an object in **grams**.
Measuring Cylinder	Measures the **volume** of a **liquid** in **ml** or **cm^3**.
Thermometer	Measures **temperature** in **°C**.
Stopwatch	Measures **time** in **minutes** and **seconds**.
Pestle and Mortar	**Crushes** up substances.
Bunsen Burner	**Heats** substances. Burns **natural gas** (**methane**).
Tripod	Metal **stand** with **three legs**.
Gauze	**Wire mesh** – goes on **top** of **tripod**.
Conical Flask	**Cone** shaped **container** – holds **liquids**.
Pipette	**Transfers** small amounts of **liquid**.
1.2 - Hazard Symbols	
	Flammable - Sets on **fire** easily.
	Corrosive - Destroys living tissue such as **skin** and **eyes**.
	Toxic - Can cause death if **swallowed** or **breathed** in.
	Irritant - Causes **skin irritation**.
	Serious Health Hazard - Can cause serious **health problems** such as **cancer** and **breathing difficulties**.
	Environmental Hazard - Toxic to **wildlife** living in **water**.

1.3 - Planning an Investigation	
Independent Variable	The one you **change**.
Dependent Variable	The one you **measure**.
Control Variables	The ones you keep the **same** to make it a **fair test**.
Method	Step by step **instructions** for an investigation.
Table	**Left** hand column = **independent** variable. **Right** hand column = **dependent** variable.
Repeat Readings	Take **3 sets** of readings and **calculate** an **average**.
Calculating an Average	**Add** the values together and **divide** by how many values you have.
1.4 - Graphs	
Categoric Data	Data that is in **words** e.g. type of metal, colour.
Continuous Data	Data that is in **numbers** e.g. length, mass, time.
Bar Chart	Use if your **independent** variable is **categoric**.
Line Graph	Use if your **independent** variable is **continuous**. 
X Axis	**Horizontal** axis – Plot the **independent** variable on here.
Y Axis	**Vertical** axis – Plot the **dependent** variable on here.
Anomaly (or Outlier)	A value that does **not fit** in with the **pattern** of the **other results**.
Line of Best Fit	**Straight line** with a **ruler** as close to as many points or a **smooth curve**. **Ignore** anomalies.

Y7 Science Cycle 1 - Sheet 1

Science Skills