Homework: Tassomai - 4 daily goals each week

**Unit 1 Working Scientifically**

| **Learning intention** | **Key learning** |
| --- | --- |
| How can we be safe in the lab? | Lab safety  Hazard symbols  Using a bunsen burner |
| How can we use equipment to take measurements? | Equipment diagrams  Scales  Units |
| What are variables? | Independent variable  Dependent variable  Control variables |
| How do we present data in a table? | How to draw a table  Collecting data from an investigation  Variables in a table |
| How do we plan an investigation? | How to write a method  How to follow a method  Practical investigation  \*Investigating how the mass of Mg affects temperature change when added to HCl |
| How do we present data as graphs? | Choosing the right graph  How to draw a scale  How to plot data |
| How do we analyse data? | Finding patterns in results.  Drawing conclusions from data.  Correlations. |
| Review of learning | Reviewing learning from the unit |

**Unit 2 Particles**

| **Learning intention** | **Key learning** |
| --- | --- |
| What are substances made from? | Recap of primary school - how to classify materials.  What is a particle. |
| What are the properties of solids, liquids and gases? | Particle model of solids, liquids and gases.  How particle model explains the properties of solids, liquids and gases. |
| What is density? | How do we measure the density of a material.  How particle model explains density. |
| What is concentration? | How do we describe concentration.  How can we investigate concentration.  How particle model explains concentration. |
| What is diffusion? | Investigating diffusion in liquids.  Using diffusion to explain the travel of smells through the air. |
| What happens when solids turn into liquids? | What is melting?  Investigation into melting of a substance. |
| What happens when liquids turn into gases? | What is boiling?  Investigation into the boiling of a substance. |
| What is the difference between evaporating and boiling? | Using particle model to explain evaporation and boiling |
| What is gas pressure? | Investigating gas pressure.  How we can change gas pressure in objects such a bicycle tires. |