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 Sound**

| **Learning intention** | **Key learning** |
| --- | --- |
| What are different types of wave? | Structure of a wave  Different types of waves |
| How does sound travel? | Circus of activities based on sound  Reflection and absorption of sound  Sound in a vacuum |
| Does sound travel faster through solids, liquids or gases? | Recap of year 7 learning on particle model of matter  Investigation on measuring the speed of sound waves. |
| How can sounds be described? | Pitch, amplitude and frequency of sounds .  Explaining sound using waves diagrams. |
| How is the ear like a microphone? | Model of the ear.  Problems with hearing. |
| Do all animals hear the same thing? | Frequency different animals can hear.  Written assessment - using mosquito devices |
| What are echos? | Echolocation in animals.  What causes an echo.  Explaining echos using sound wave diagrams. |
| What are some uses of ultra sound? | Uses of ultrasound in pregnancy, physiotherapy and cleaning surgical equipment |