**Assignment: Build a 3D Model Volcano**

**Your task:** Build a model of a volcano in groups of 2 or 3. You will be investigating a topic of your choice. You must hand in a scientific report along with your planning and your model. The report must be done individually.

**Model due date (explosion date): Week 9/10: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Report due date: Week 10 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Ideas about what to investigate:**

**Volcano:** Does the temperature of the vinegar affect how fast the volcano erupts? Does the shape of the volcano affect the direction the “lava” flows? What combination of baking powder and vinegar creates the largest eruption?

**When you have decided what to investigate, you must propose your investigation with a list of materials you will need in order to create the model.**

**Materials you will have access to:** cardboard, aluminium foil, newspaper, sticky tape, lab trays, baking soda, vinegar, stirring rod, scissors, food dye, 100mL beaker, cornflour, antacid tablets

**Any other materials you may need you will need to provide yourself eg. Coke bottle, jars, plasticine etc. However the materials above are enough to build a standard volcano.**

**Project planning sheet**

Diagram of model:

We will be investigating:

What resources can we get ourselves? Delegate who is in charge of obtaining certain resources

What resources do we need?

**Project planning sheet**

Dependent variable

Our hypothesis (*If…. Then…. Because…..)*

Proposed method

Controlled variables

Independent variable