Preparation for the MSc Volcanology programme

Suggested material to review

If you have not worked with basic maths and physics for a while, then it would be useful to review the following:

Maths:

1. Convert units e.g. km/hour to m/s

2. Rearrange equations to solve for a variable e.g. A=2B+1 can be rearranged to: B=(A-1)/2

3. Plot data on a graph with a computer

4. Fit a line to data on a graph with a computer

5. Use logarithms and exponents.

Note on Calculus: If you want to take optional units Advanced Geophysical Fluid Dynamics or Seismology in the second teaching block then you will need to be comfortable with calculus (differentiating and integrating equations). If you are not taking these units then you are not required to be able to differentiate or integrate equations, but you will need to understand the concept of a gradient and a derivative.

Physics:

1. Be familiar with mass, density, force, velocity, and acceleration.

2. Be familiar with basic properties of solids, liquids and gases.

If you do not feel comfortable with any of these concepts, then let Alison Rust know during Welcome Week. There will be support to help students when we have established who needs it.