Form 6 Science Exam Guidance: Autumn Term

| Knowing the following will be very helpful in the exam: |
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| Investigations |
| Know how to plan an investigation, taking into account fair testing, reliability and the correct selection of apparatus. Know the meaning of and difference between: a method, a prediction and a conclusion. |
| Solutions, Separation and States of Matter |
| Know the meaning of melting, freezing, evaporation and condensation and recognise or give examples of each. Know the difference between weight, mass and volume and what apparatus is used to measure these. Correctly draw and label a simple filter: which equipment is needed and the words 'residue' and 'filtrate' Correctly identify which methods to use to separate different mixtures. Know when to use filtration, distillation, sieving, decanting or magnetism. Explain how each method works to separate the mixture. Know and use the formula used to calculate density and its units. Plot a scatter graph on x and y axes, including choosing appropriate scales for each axis. |
| Forces |
| ☐ Identify the pivot, load and lever on a diagram. ☐ Know the unit of force ☐ Know that forces can be balanced or unbalanced. ☐ Know about the different forces: weight, gravity, upthrust, air resistance, friction and the term, 'reaction force'. ☐ Draw and label types of forces on a diagram with arrows to represent the size of each force. ☐ Know and use the formula for pressure and the units. ☐ Know how to calculate an average. ☐ Know and use the formula for speed and the units. |

Examination tips:

- Make sure you have all the equipment you will need before the day of your exam. For science this is a pen, pencil, ruler. A calculator is also needed. In Form 6 a basic calculator is sufficient but a Casio scientific calculator is required in Form 7 and 8.
- **READ** each question and any information really carefully.
- Write an answer for every question, even if you aren't sure. Try to include as much detail and use scientific words.