



Nobel
Excellence in Everything

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Science Training group criteria (Autumn)

Developing

You are able to.....

- Describe the particles in a material using terms including: density, evaporate, condense, diffusion
- State what is meant by the term mixture, and identify what mixtures the following can separate: filtration, distillation, evaporation and chromatography
- Draw and label simple plant and animal cells, using the correct terminology
- Identify the different parts of a joint, and describe the function of each
- Describe the results of forces being applied to an object using terms including equilibrium and resultant force

Secure

You are able to.....

- Explain changes in states in terms of changes to the energy of particles
- Use the solubility curve of a solute to explain observations about solutions
- Choose the most suitable technique to separate out a mixture of substances
- Explain how uni-cellular organisms are adapted to carry out functions that in multi-cellular organisms are done by different types of cell
- Explain how antagonistic muscles produce movement around a joint
- Explain whether an object in an unfamiliar situation is in equilibrium

Extending

You are able to.....

- Argue for how to classify substances which behave unusually as solids, liquids or gases
- Evaluate the evidence for identifying an unknown substance using separating techniques
- Deduce general patterns about how the structure of different cells is related to their function
- Predict the consequences of damage to a joint, bone or muscle
- Explain how turning forces are used in levers

Not yet- Can attempt the above and sometimes be successful

Expected- Can do the above successfully.

Beyond- Can do all of the above confidently and successfully with the desired outcomes.