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Nobel

Excellence in Everything

Science Training group criteria (Autumn)

Developing

You are able to.....

- State that most substances are not pure elements, but compounds or mixtures containing atoms of different elements
- State that when the resultant force of an object is zero, it is in equilibrium and does not move, or moves at a constant speed in a straight line
- State the different components of a balanced diet
- State that two 'like' magnetic poles will repel, and two 'unlike' magnetic poles will attract
- State that the elements in a group all react in a similar way, and sometimes show a pattern in reactivity
- State that respiration is a series of chemical reactions, that breaks down glucose to provide energy

Secure

You are able to.....

- Given chemical formulae, name the elements present and their relative proportions
- Describe factors which affect the size of frictional and drag forces
- Describe possible health effects of unbalanced diets
- Use the idea of field lines to show how the direction or strength of the field around a magnet varies
- Describe the reaction of an unfamiliar Group 1 or Group 7 element
- Use word equations to describe aerobic and anaerobic respiration

Extending

You are able to.....

- Compare and contrast the properties of elements and compounds and give a reason for differences
- Evaluate how well sports or vehicle technology reduces frictional or drag forces
- Design a diet for a person with specific dietary needs
- Predict the pattern of field lines and the force around two magnets placed near each other
- Choose elements for different uses from their position in the periodic table
- Describe similarities and differences between aerobic and anaerobic respiration

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.