



8



Nobel

Excellence in Everything

Science Training group criteria (Summer)

Developing

You are able to.....

- State that recycling reduces the need to extract resources
- State that most metals are found combined with other elements in ores
- State that natural selection is a theory that explains how species evolve and why extinction occurs
- State that chromosomes are long pieces of DNA which contain many genes
- State that the thermal energy of an object depends upon its mass, temperature and what it is made of
- State that thermal energy is transferred by particles in conduction and convection, and by radiation

Secure

You are able to.....

- Explain why recycling of some materials is particularly important
- Describe how Earth's resources are turned into useful materials or recycled
- Explain how a lack of biodiversity can affect an ecosystem
- Use a diagram to show how genes are inherited
- Describe how an object's temperature changes over time when heated or cooled
- Explain how a method of thermal insulation works in terms of conduction, convection and radiation

Extending

You are able to.....

- Suggest ways in which changes in behaviour and the use of alternative materials may limit the consumption of natural resource
- Predict and explain the changes in a population over time due to natural selection
- Find out why scientists Watson, Crick and Franklin were so important
- Sketch a graph to show the pattern of temperature changes against time

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.