



**Nobel**

Excellence in Everything

## Science Training group criteria (Summer)

### Developing

You are able to.....

- State that the pH of a solution depends on the strength of the acid
- State that mixing an acid and alkali together produces a chemical reaction called neutralisation
- State that plants have adaptations to disperse seeds using wind, water or animals
- State that electricity is generated by a combination of different sources
- State that each method of electricity generation has its advantages and disadvantages
- State that organisms in a food web depend on each other for nutrients

### Secure

You are able to.....

- Explain how neutralisation reactions are used in a range of situations
- Describe a method for how to make a neutral solution from an acid and alkali
- Describe the main steps that take place when a plant reproduces successfully
- Identify parts of the flower and link their structure to their function
- Compare the energy usage and cost of running different home devices
- Combine food chains to form a food web

### Extending

You are able to.....

- Given the names of an acid and an alkali, work out the name of the salt produced when they react
- Deduce the hazards of different alkalis and acids using data about their concentration and pH
- Suggest how plant breeders use knowledge of pollination to carry out selective breeding
- Suggest ways to reduce costs of electricity, by examining data on a home energy bill
- Suggest what might happen when an unfamiliar species is introduced into a food web

**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.**