

Dear Squirrels,

We hope you are all managing as well as you can. We thought you might like some information about the Science we would have done.

All of the work we would have done would have included some of this: it's called 'Working scientifically'. The word in italics are the main points.

- ***Planning different types of scientific enquiries to answer questions***, including recognising and controlling variables where necessary. For example, when we looked at rocks, we scraped them for the same amount of time and put the same amount of water on them to make sure the test was fair.
- ***taking measurements***, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. For example, we measured how much water had evaporated every 10 minutes.
- ***recording data and results*** of increasing complexity ***using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs***. For example, we drew a block graph to show how many pieces of fruit had been eaten each day.
- ***using test results*** to make predictions to set up further comparative and fair tests. For example, we would have been testing different rocks using the information we had already found out.
- ***reporting and presenting findings*** from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations. For example, we wrote our experiment about deforestation using diagrams and explanations.

There is a lot of science you can do at home just by being curious about the world around you. Thinking something through before you "find out" and using the internet is the best way to keep you scientific mind in good shape. You can conduct experiments if you like, but would always need to ask permission and be properly supervised while you do them. Keep your notes in your exercise book, so you can keep track of what questions you asked and what you found out.

Of course you are trying to build knowledge, but you are also trying to train your mind to think a certain way too.

We would have covered this topic ....

### **Shining the Light**

This term would we would have been finding out about light.

We would have been looking at relective materials and shadows.

You could find out about why we need light in order to see things and that dark is the absence of light. Try to experiment with light reflecting from different surfaces. Which surfaces reflect light?

We know that light from the sun can be dangerous – can you find ways that we can protect our eyes?

Experiment with shadows : They are formed when the light from a light source is blocked by an object (that's not see-through). You could also find patterns in the way that the size of shadows change.

### **Sources of help**

**Twinkl** home hub (parent section) has experiments for children of different ages. These are all achievable at home. These are free to parents, according to the site, once an account has been created.

### **Oak National Academy website**

This website is written by teachers in your year group, so you should be able to find help with specific topics in science.

**BBC Bitesize** is a good source of help for understanding science and has lots of video clips on it.

We look forward to hearing from you about science work that you've done at home! Use the school's Facebook page to share your pictures and comments.

Mrs Thompson 😊