

Working Scientifically means I can:

1. Ask relevant questions
2. Use observations & knowledge to answer scientific questions.
3. Set up a simple enquiry to explore scientific questions.
4. Set up a test to compare 2 things.
5. Set up a fair test & explain why it is fair.
6. Make careful & accurate observations, including the use of standard units.
7. Use equipment, including thermometers & data loggers to make measurements.
8. Gather, record, classify & present data in different ways to answer scientific questions.
9. Use diagrams, keys, bar charts & tables; using scientific language.
10. Use findings to report in different ways, including oral & written explanations & presentation.
11. Draw conclusions & suggest improvements.
12. Make a prediction with a reason.
13. Identify differences, similarities & changes related to an enquiry.

Being a Scientist Year Three

Being a chemist mean I can:

Rocks

1. Compare & group rocks based on their appearance & physical properties, giving a reason.
2. Describe how fossils are formed.
3. Describe how soil is made.
4. Describe and explain the difference between sedimentary & igneous rock.

Being a biologist means I can:

Plants

1. Describe the function of different parts of flowering plants and trees.
2. Explore & describe the needs of different plants for survival.
3. Explore & describe how water is transported within plants.
4. Describe the plant life cycle, especially the importance of flowers.

Animals, including humans

5. Explain the importance of a nutritious, balanced diet.
6. Explain how nutrients, water & oxygen are transported within animals & humans.
7. Describe and explain the skeletal system of a human.
8. Describe and explain the muscular system of a human.
9. Describe the purpose of the skeleton in humans & animals.

Being a physicist means I can:

Light

1. Describe what dark is (the absence of light)
2. Explain that light is needed in order to see.
3. Explain that light is reflected from a surface.
4. Explain & demonstrate how a shadow is formed.
5. Explore shadow size & explain.
6. Explain the danger of direct sunlight & describe how to keep protected.

Forces and magnets.

7. Explore & describe how objects move on different surfaces.
8. Explain how some forces require contact & some do not, giving examples.
9. Explore & explain how objects attract & repel in relation to objects & other magnets.
10. Predict whether objects will be magnetic & carry out an enquiry to test this out.
11. Describe how magnets work.
12. Predict whether magnets will attract or repel and give a reason.