Information for Parents/Carers

SCIENCE TARGETS - A YEAR 3 SCIENTIST

Page 1

Working scientifically

(Y3 and Y4)

I can ask relevant scientific questions.

I can use observations and knowledge to answer scientific questions.

I can set up a simple enquiry to explore a scientific question.

I can set up a test to compare two things.

I can set up a fair test and explain why it is fair.

I can make careful and accurate observations, including the use of standard units.

I can use equipment, including thermometers and data loggers to make measurements.

I can gather, record, classify and present data in different ways to answer scientific questions.

I can use diagrams, keys, bar charts and tables; using scientific language.

I can use findings to report in different ways, including oral and written explanations, presentation.

I can draw conclusions and suggest improvements.

I an make a prediction with a reason.

I can identify differences, similarities and changes related to an enquiry.

Biology

<u>Plants</u>

I can describe the function of different parts of flowing plants and trees.

I can explore and describe the needs of different plants for survival.

I can explore and describe how water is transported within plants.

I can describe the plant life cycle, especially the importance of flowers.

<u>Animals, including humans</u>

I can explain the importance of a nutritious, balanced diet.

I can explain how nutrients, water and oxygen are transported within animals and humans.

I can describe and explain the skeletal system of a human.

I can describe and explain the muscular system of a human.

I can describe the purpose of the skeleton in humans and animals.

Information for Parents/Carers

SCIENCE TARGETS - A YEAR 3 SCIENTIST

Page 2

Chemistry

Rocks

I can compare and group rocks based on their appearance and physical properties, giving a reason.

I can describe how fossils are formed.

I can describe how soil is made.

I can describe and explain the difference between sedimentary and igneous rock.

Physics

Light

I can describe what dark is (the absence of light).

I can explain that light is needed in order to see.

I can explain that light is reflected from a surface.

I can explain and demonstrate how a shadow is formed.

I can explore shadow size and explain.

I can explain the danger of direct sunlight and describe how to keep protected.

Forces and magnets

I can explore and describe how objects move on different surfaces.

I can explain how some forces require contact and some do not, giving examples.

I can explore and explain how objects attract and repel in relation to objects and other magnets.

I can predict whether objects will be magnetic and carry out an enquiry to test this out.

I can describe how magnets work.

I can predict whether magnets will attract or repel and give a reason.

Science Targets

Exceeding Year 3 Expectations

I can record and present what I have found using scientific language, drawings, labelled diagrams, bar charts and tables.

I can use my findings to draw a simple conclusion.

I can explain how the muscular and skeletal systems work together to create movement.

I classify living things and non-living things by a number of characteristics that I have thought of.

I can explain how some living things depend on one another to survive.

I can explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and speed dispersal

I am beginning to relate the properties of rocks with their uses

I can investigate the strengths of different magnets and find fair ways to compare them.

I can explain why lights need to be brighter or dimmer according to need.

I can explain why a shadow changes when the light source is moved closer or further from the object.

