Skills developed

Practical skills in measuring

Drawing scientific diagrams

observations

equation

Fair tests, accuracy and reliability

Microscopy - using microscope and drawing cells

Practical skills in building and drawing electrical

Drawing scientific diagrams. Problem solving skills

Practical skills in planning investigations, fair tests and

Practical skills in making observations, recording

Calculation skills in finding density and rearranging an

Research skills in finding out about our solar system

circuits, making measurements and recording.

variables, recording results accurately

results accurately and plotting graphs

Practical skills in sampling techniques

and about energy sources

Practical skills in measuring and recording

Assessment

scientific skills

Baseline assessment of

Practical skills assessment

Written assessment paper

Practical skills assessment

Written assesment paper

based on knowledge and skills

covered throughout the year

covered so far

based on knowledge and skills

A curriculum where topics are regularly revisited and linked together to allow students to understand science in the world around them and provide a solid

foundation for further study in science. Developing the practical skills to help students to investigate ideas independently.

All matter is made of small particles which can be

Total energy in the Universe is always the same, but

Materials can undergo physical changes or chemical

Organisms are made up of cells, growth is the result of

Materials may be a mixture of different particles and we

Energy cannot be created or destroyed. Heat and

The human reproductive system and puberty

can use a range of techniques to separate them

Changing the movement of an object requires a net

Chemicals may be acidic or alkaline and can react in

Organisms require a supply of energy and materials for

which they often depend on and compete with other

Our solar system is a very small part of one of billions

Organisms require a supply of energy and materials for

which they often depend on and compete with other

The range of energy sources available to us

How the body changes during pregnancy and birth

Knowledge covered

arranged in different ways

can be transferred

changes

cell divisions

temperature

force acting on it

different ways

organisms

of galaxies

organisms

Reactions of acids with bases

What is density and how to find it

Lab safety rules and equipment names

Living things are made up of cells

Basic circuits and flow of electricity

What are the aims and intentions of this curriculum?

Topics

Particles

Energy

Living things

Particles

Energy

Electricity

Mixtures

Forces

Acids and pH

Having a baby

Plant reproduction

Interdependence

Neutralising

Solar system

Interdependence

Energy resources

Density

Reproductive system

Living things

Safety, equipment

Term

Autumn 1

Autumn 2

Spring 1

Spring 2

Summer 1

Summer 2