SCIENCE CURRICULUM COVERAGE

YEAR 1

AUTUMN

Me and My Body

Identify, name and draw the basic parts of the human body and say which part of the body is associated with each sense.

What is it made from?

Distinguish between an object and the material from which it is made.

Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.

Describe the simple physical properties of a variety of everyday materials.

Compare and group together a variety of everyday materials.

SPRING

Seasonal change

Observe and describe weather associated with the season and how day length varies.

SUMMER

Plants

Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.

Identify and describe the basic structure of a variety of common flowering plants, including trees.

Animals including humans.

Identify and name a variety of common animals including, fish, amphibians, reptiles, birds and mammals.

Identify and name a variety of common animals that are carnivores, herbivores and omnivores.

YEAR 2

AUTUMN

Healthy Humans:

Explore the human life cycle, focus on how we what we need to grow into healthy adults.

The changing shape of materials.

Which material should we choose and why?

SPRING

Electricity – The Positives and The Negatives

Understand electricity and the essential role it plays in everyday life.

Learn about the hazards associated with mains electricity.

SUMMER

How Does Your Garden Grow?

Become experts by using the local environment throughout the year to observe how different plants grow.

Habitats

Become a naturalist and explore the differences between things that are living, dead, and things that have never been alive. Explore animals and plants in their natural habitats.

YEAR 3

AUTUMN

Keeping Healthy

Become a team of personal trainers for clients in need of expert, health, dietary and training advice. Develop specialised knowledge, skills and understanding in nutrition, muscles, bones and joints.

Rocks and Fossils

Create an amazing rock and fossil museum.

Build up your knowledge to become expert museum curators and make exhibits, quizzes and activities.

SPRING

Amazing Magnets

Are you up to the task of developing some exciting activities on the theme of Magnetism to delight visitors at a science fair?

Light and Shadows

Create your own shadow puppet play using your expert knowledge and skills on light and shadows. Conduct your own investigations on shadows, light and reflections.

SUMMER

Roots and shoots.

Help alien beings to build a space farm for Earth food plants. Help by becoming their Earth Plant Researchers.

Artful flowers, fruits and seeds.

Step into the amazing, secret world of flowers. Discover their relationship with bees and other insects. Learn how flowers transform into fruits and seeds to perpetuate the cycle of life.

YEAR 4

AUTUMN

Excuse me, are these your teeth?

Excuse me, are these your teeth? Who did this poo? Am I a predator? Find the answers to these and other peculiar questions about digestion and food chains.

States of Matter Scientists

Become experts in States of Matter! Develop an understanding of all areas of states of matter, including how materials can change from one state to another, through a large range of simple practical enquiries.

SPRING

It's Electric! Learn all about electrical circuits and test materials ability to conduct electricity. Put your knowledge of circuits on display by building your own circuit.

Listen Up!

The rock stars of the world need help! Children should go to their concerts and rock-out, but protect their precious ears! Find out about sound; how it travels, pitch and volume. Then investigate materials to see which will provide the best insulation against sound.

SUMMER

Name that living thing!

Become experts in the use of classification keys to help group, identify and name a variety of living things! Learn about the 7 characteristics of a living thing; sort living things in a number of ways; make a dichotomous classification key to identify local invertebrates; make observational drawings and a group large-scale drawing of an insect.

Help our Habitats!

Turn a site in your school into a wildlife haven. Learn about wildlife and their habitats. How do environments change? What can we do to help them?

YEAR 5

AUTUMN

Life Explorers

Can you research and collate information on growth, development, and old age, and present it in a sensitive and logical way?

Properties and Changes of Materials

You will need to carry out a range of investigations into the changes that occur to certain materials when they are heated, cooled and mixed with other materials.

SPRING

May the forces be with you

A rare and valuable meteorite has just landed on Earth. Can you retrieve it? Overcome an array of challenges by putting your knowledge and understanding of forces into action.

Earth and Space!

Prof Brian Cox is creating a new series of Stargazing programmes aimed at young children. Are you up for the challenge and do you have what it takes to be a Space Presenter?

SUMMER

Music festival materials

The Spring Music Festival launches and you have been selected to form the 'materials committee'. Can you find the best materials for take-out bags and drinks bottles?

The art of living

Create an inspirational and informative collection of scientific illustrations on the theme of animal and plant life cycles. Develop your mastery of key art skills as you create accurate and eye catching illustrations that tell the life cycle story of a range of nature's wonders. *Along the way hone your skills as a natural scientist.*

YEAR 6

AUTUMN

Lifestyle Choices

Explore t**he work of scientists and scientific research about the relationship between diet, exercise, drugs, lifestyle and health.**

Game of Survival

Take part in a series of challenges. You will need to have your evolutionary wits about you and a keen eye for the survival of the fittest.

SPRING

Electric celebrations

Dare you enter the Dragons' Den and market your very own inventive festive lights decoration? Use motors, switches, bulbs and buzzers to make your product the stand-out choice of the dragons.

Crime lab investigations

A crime has been committed and the UK Crime Lab needs a team to analyse its evidence against six suspects. They need a team with mathematical prowess and a scientific line of attack.

SUMMER

Classification Connoisseurs

Discover Linnaeus' classic classification system and identify a range of living things right on your back door as well as exploring creatures further afield. Design your own new creatures that fit within Linnaeus' system.

The Science of Sport There is a lot more to sport than meets the eye and it is your job to explore the science behind it. Investigate and explore the grounds, the kit, the people, the physics and night time matches.