Chase Bridge Subject Roadmaps



Our **Curriculum**

SCIENCE

Plants/Living Seasonal changes/ things/habitats **Earth and Space** Learning Animals including Forces/Electricity humans/Evolution Areas

"Science is a way of thinking much more than it is a body of knowledge"

- Carl Sagan

EYFS

Early Learning Goal Links:

Explore the natural world around them. Describe what they see, hear and feel whilst

outside. Understand the effect of changing seasons on the natural world around them

Ask questions to find out more and to check they understand what has been said to them.

YEAR 1

Children will learn about:

Autumn:

Humans: the basic parts of the human body and its communication to the senses

Spring:
Materials: everyday materials; compare/ group materials by simple physical

properties
Seasonal Changes: seasonal changes in the environment; weather changes; how day length varies

Plants: common wild/garden plants; recognise deciduous and evergreen trees; label the structure of a flowering plant Animals: common animals including the terms carnivore, herbivore and omnivore; the structure of animals

YEAR 2

Children will learn about:

Materials/Matter/

Autumn: Uses of everyday materials: identifying and comparing the suitability of a variety of everyday materials for particular uses Living things and their habitats: identifying and naming a variety of plants and animals in their habitats, including microhabitats; food chains

Spring:
Plants: observing and describing how seeds and bulbs grow into mature plants

Animals including humans: describing the importance for humans of exercise, eating the right amounts of different types of food, and hygiene; describing the basic needs of animals, including humans, for survival; offspring



occurring, predict how things will behave, and analyse causes.

INTENT

Children will know the essential aspects of

the knowledge, methods, processes and uses

of science. Through building up a body of key

foundational knowledge and concepts, pupils

will develop a sense of excitement and curi-

osity about natural phenomena, as well as

how science can be used to explain what is

IMPLEMENTATION

Children will learn through building on their knowledge of different science topics, developing their understanding of scientific processes, skills and vocabulary. Children are encouraged to revisit and retrieve past learning to help build their understanding. Science is also taught in blocks as part of the year group topic work. Teachers make full use of the school grounds and the local area as well as science events in order to promote the value and importance of having a secure scientific understanding of the world around

them.

IMPACT

Children will be able to demonstrate the

impact of their science understanding

through investigations using the scientific

enquiry skills, and our end of unit review

guizzes (Year 1-6) and class discussion in

EYFS.

Children will learn about:

microorganisms **Humans:** human circulatory system; the

heart and how to be healthy

reflection

Evolution: Charles Darwin's work; the adaptation and inheritance

dangers of electricity

YEAR 4

Children will learn about:

Humans: teeth and the digestive system;

Electricity: simple circuits, including those with buzzers and breaks

Spring:

Sound: how sounds are made; pitch; sound proofing and vibrations

States of Matter: liquids, solids and gases; evaporation; condensation

Summer: Living Things: classifying animals; vertebrates; invertebrates; food chains; name living things in the environment; impact of



YEAR 5

Children will learn about:

Forces: gravity; air resistance; water resistance; friction; levers, gears and pulleys Materials: compare/group materials; dissolving and solutions; separating mixtures; reversible/irreversible changes; uses of everyday materials

Earth and Space: the movement of the Earth and planets; the movement of the Moon; spherical bodies; day and night

Living things: life cycles of a mammal, an amphibian, an insect and a bird; reproduction

Animals, including humans: the changes as humans develop to old age animals

Rocks: classification of rocks; formation of stone; fossilisation; soil Light: absence of light; shadows; reflection and the dangers of UV

Forces and Magnets: gravity; pushes; pulls; friction and the behaviour of magnets

YEAR 3

Children will learn about:

Animals including humans: nutrition from food; skeletons and muscles

Light/Sound

Plants: functions of different parts of plants; growth requirements; how water is transported; role of flowers in lifecycle

YEAR 6

Autumn: Living Things: characteristics of living things and organisms; classification; plant life;

Spring:
Light: properties of light sources; travel and

theory of evolution; survival; natural selection

Electricity: circuits with increased components; electrical symbols and the