



The Science Curriculum Journey



“Science at Alkerden: curiosity, enquiry and understanding our world.”

Animal Adventures. Changing Seasons: Autumn Treasures

What animals live on a farm and how do they live?

What makes minibeasts special and different?

How do we know if something is alive?

Biology Week

How can we care for animals and living things?

Assessment

Changing Seasons: Whatever the Weather

What changes can we see in nature in different seasons?

How does the weather change throughout the year?

How does the weather affect what we wear and do?

How can we help people, animals, and plants in winter?

Assessment

I am a Scientist

What does a scientist do?

British Science Week

How can we find things out?

What can we discover using our senses?

Assessment

Changing Seasons: Springtime Magic

What changes happen when spring arrives?

How do plants grow and change in spring?

What animals and minibeasts can we see in spring?

World Wildlife Day

Why is spring important for living things?

Assessment

Our Beautiful World

What are the different parts of a plant?

How can we care for plants so they grow well?

Earth Day

How are plants the same and different?

What does each part of a plant do?

Assessment

Changing Seasons: Summer Senses

What is special about summer and how does it feel?

How can we stay safe and healthy in the sun?

How do we choose the right clothes for different weather?

How can we build and change sand to make sandcastles?

Assessment

Key subject skills this term:

Animal Identification
Animal Features
Observation
Habitats

Key subject skills this term:

Natural Processes
Seasonal Knowledge
Observation
Seasons

Key subject skills this term:

States of Matter
Light & Shadow
Prediction
Forces

Key subject skills this term:

Observation
Natural Processes
Sensory Awareness
Seasonal Change

Key subject skills this term:

Environmental Care
Plant Anatomy
Plant Growth
Plant Care

Key subject skills this term:

Natural Processes
Observation
Seasons
Weather

KI Kind

CO Collaborators

CM Communicators

TH Thinkers

SA Self-aware

GA Globally aware

CR Creators

OM Open minded

Year R



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Forces and Spaces: Seasonal Changes

How do plants and animals respond to seasonal changes?

Biology Week

What is the weather like in each season?

Assessment

Materials: Everyday Materials

What materials are everyday objects made from?

Chemistry Week

How can we describe and compare different materials?

Why are different materials used for different objects?

How can we test materials to find out what they can do?

Animals: Sensitive Bodies

How do humans and animals use their senses?

British Science Week

How do our senses help keep us safe?

How do our bodies help us find out about the world?

Do all animals sense the world in the same way?

Animals: Comparing Animals

How are different animals the same and different?

Where do different animals live and why?

What do animals eat and how does this help us compare them?

How can we group animals in different ways?

World Wildlife Day

Plants: Introduction to Plants

What is a plant and where can we find plants?

How are plants the same and different?

Earth Day

What do plants need to grow and stay healthy?

What are the different parts of a plant?

Making Connections: Investigating Science through Stories

How can stories help us learn about science?

What science can we find in our favourite stories?

How does science help us understand the world in stories and real life?

World Environment Day

How can we investigate ideas from a story?

Key subject skills this term:

Questioning
Observation

Data Collection
Pictograms

Key subject skills this term:

Fair Testing
Prediction

Classification
Evaluation

Key subject skills this term:

Body Parts
Classification

Data Analysis
Senses

Key subject skills this term:

Scientific Enquiry
Data Collection

Classification
Scientists

Key subject skills this term:

Plant Anatomy
Plant Functions

Questioning
Scientific Research

Key subject skills this term:

Animal Features
Fair Testing

Animal Diets
Model Making

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Year 1



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Living Things: Habitats

What do living things need from their habitats to survive?

How are animals and plants suited to the habitats they live in?

What is a habitat and what lives there?

How are living things in a habitat connected?

Biology Week

Living Things: Microhabitats

What is a microhabitat and where can we find them?

What living things live in microhabitats?

How do microhabitats meet the needs of living things?

How are living things in microhabitats connected?

Materials: Use of Everyday Materials

What materials are objects made from and how are they used?

Which material is best for a purpose and why?

British Science Week

How do the properties of materials make them suitable for different uses?

How can materials be changed by bending, stretching, twisting or squashing?

Animals including Humans: Life cycles and Health

How do humans and animals grow and change as they get older?

What do humans need to stay healthy?

Why is it important to take care of our bodies?

What are the stages in different animal life cycles?

World Wildlife Day

Plants: Plant Growth

How do plants grow and change over time?

Earth Day

How can we investigate what helps plants grow best?

How do different plants grow in different ways?

What do plants need to grow and stay healthy?

Making Connections: Plant-based Materials

What materials come from plants?

How are plant-based materials used in everyday life?

How can we use plant-based materials in a sustainable way?

How do the properties of plant-based materials make them useful?

World Environment Day

Key subject skills this term:

Life Processes
Habitats

Classification
Food Chains

Key subject skills this term:

Classification Keys
Data Collection

Scientific Enquiry
Botanists

Key subject skills this term:

Material Properties
Material Suitability

Measurement
Block Graphs

Key subject skills this term:

Life Cycles
Survival Needs

Food Groups
Exercise

Key subject skills this term:

Germination
Plant Life Cycles

Comparative Testing
Measurement

Key subject skills this term:

Material Classification
Paper Production

Eco-Design
Sustainability

KI Kind

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CM Communicators

TH Thinkers

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Year 2