



CEC Key Stage 2 Learning Journey: Science

Cycle 2

- Reproduction
- Puberty
- Forces
- Separating mixtures
- Organ systems
- The digestive system
- Enzymes

Cycle 3

- Electricity
- Magnetism
- Chemical reactions
- Respiration
- Plants and Photosynthesis
- Motion

Extra Curricular
 Science Award and Club
 Science Fair
 Science assembly and visits
 Visits to secondary science lab

Cycle 1

- Energy stores and transfers
 - Energy resources
- Particle model of matter
 - States of matter
 - Life processes
 - Cell biology

Year
7

Summer Term

Let it Shine: light travelling in straight lines. How light travels. Production of shadows and starts to look at how light is reflected. The realm of coloured light and rainbows
We are Evolving: animals best suited to their environment survive to breed and pass on their characteristics to their offspring. Natural selection.

Spring Term

Particles in Physical and Chemical Changes

Spring Term

Magnetism

Space

Summer Term

Humans and Animals over Time
 Reproductive Cycles

Year
6

Autumn Term

Diet and Lifestyle
Electrifying: construct simple circuits using bulbs, motors, buzzers and switches. Alternative forms of electricity production.

Sustainability

Autumn Term

Separating Mixtures
 Physical and Chemical changes

Year
5

Summer Term

Adaptations
 Anatomy

Spring Term

Electrical Circuits
 States of Matter

Spring Term

Plants

Light

Summer Term

Raw and synthetic materials
 Forces and Magnets

Year
4

Autumn Term

Ecosystems
 Sound

Autumn Term

Rock Cycle: how rocks are used in our locality, where rocks have come from, why rocks are important to civilisation. Types of rocks. Compare and test rocks to compare their simple physical properties.

Year
3

Cycle Assessment points

- Autumn Term Assessments (November)
- Spring Term Assessments (March)
- Summer Term Assessments (June)



CEC EYFS + Key Stage 1 Learning Journey: Science

Learning journey to continue in KS2

Spring Term

Materials Monster: Identify, observe and classify materials. Waterproof and windproof. materials that are transparent, opaque, and translucent. Suitability of a material for a particular object.

Healthy Me: Exercise: 1. keeps our hearts healthy – when we exercise, we 'give our hearts a work out'. 2. Strengthens our muscles in different parts of the body. 3. Helps to keep us flexible (supple). 4. Makes us feel good. Balanced diet. Hygiene.

Summer Term

Little Masterchef: basic needs of humans for survival (water, food and air). Balanced diet. Hygiene when cooking.
Young Gardeners: How to plant seeds, what are best conditions for growth and how plants need water, light and a suitable temperature to grow and stay healthy.

Autumn Term

Move it: force- how objects move, comparing and testing, make things move in the air, compare wheels .
Mini Worlds: Observe using a magnifying glass Understand living, dead, never been alive. Food chains

Year

2

Summer Term

Celebrations:
Light sources
Treasure Island:
Designing and building shelters

Spring Term

Holiday:
• Keeping safe in the sun.
• Materials for different conditions
• Vertebrates
On Safari:
• Invertebrates

Spring Term

• Pirate ships: floating and sinking. Using different materials.
• Safari:
-African animals
-Know some similarities and differences between the natural world around them and contrasting environments.
- Understand some important processes and changes in the natural world around them, including the seasons.

Summer Term

Cooking- changing states of matter.
Planting Seeds
Lifecycle of a butterfly
Lifecycle of a frog
Do you still look the same as a baby?

Year

1

Autumn Term

Polar Adventures:
Investigating polar habitats, materials and explorers.
Who am I?:
Body parts and senses.

Autumn Term

- Features: individual characteristics
- Guess Who?'
- Senses
- Comparing Planets
- Honeycomb asteroids
- Light and Dark

Year

R

Summer Term

-Explore how things work.
-Understand the key features of the life cycle of a plant and an animal.
- Begin to understand the need to respect and care for the natural environment and all living things
- Explore and talk about different forces
-Seasons- Summer.

Spring Term

- Explore collections of materials with similar and/or different properties
- Talk about what they see, using a wide vocabulary.
- Plant seeds and care for growing plants.
- Minibeasts
- Seasons- Spring

Spring Term

- Explore natural materials, indoors and outside
- Animals
- Notice patterns and arrange things in patterns

Summer Term

- Explore and respond to different natural phenomena in their setting and on trips.
- Minibeasts
- Planting and growing

Year

P

Autumn Term

- Use all their senses in hands-on exploration of natural materials.
- Explore collections of materials with similar and/or different properties
- Seasons-Winter- ice, freezing and change
- Talk about the differences between materials and changes they notice.
- Animal habitats.

Autumn Term

- Repeat actions that have an effect.
- Winter- freezing and melting.

Year

N

Cycle Assessment points

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- Spring Term Assessments (March)
- Summer Term Assessments (June)