

St Chad's Science Draft Overview

Chemistry, Physics, Biology and Earth Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>Explore the natural world around them. Observe the four seasons over time – understand the effect of the season on the natural world. Explore natural materials indoors and outdoors, explore collections of materials, plants seeds, begin to understand the need to care for the environment. Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their own experiences and what has been read in class. Understand some processes and changes in the natural world around them including the seasons and changing states of matter. Understand life cycles through knowledge of family and community. Use senses to explore what is around them.</p> <p>Explore how things work, talk about differences they see. Repeat actions for effect and talk about different materials. Explore shadow, explore rainbows, explore light sources. Explore how things move in water or because of the wind. Play outside in all weather and observe differences. Describe people who are familiar with them and learn how to care for themselves. Observe how baby animals change over time. Learn about space travel and sun, moon and stars.</p>					
Y1	<p>What other types of living things are there?</p> <p>Animals including humans.</p> <p>Plan Bee: Identifying Animals</p>	<p>What are the different types of weather?</p> <p>The four seasons and the length of day</p> <p>Plan Bee: Complete Seasonal Change</p>	<p>What are bodies and what do they do?</p> <p>Animals including humans.</p> <p>Plan Bee: My Body</p>	<p>What are things made from?</p> <p>Everyday Materials</p> <p>Plan Bee: Everyday Materials</p>	<p>What is Alive?</p> <p>Wild and garden plants and trees</p> <p>Plan Bee: Identifying Plants</p>	We Are Scientists
Y2	<p>Can living things stay healthy and live forever?</p> <p>Living things and their habitats</p>	<p>How can we change the shape of some materials?</p> <p>Uses of Everyday Materials</p>	<p>What do living things need to survive?</p> <p>Animals including humans.</p>	<p>Who are famous scientists?</p>	<p>What is alive, dead or was never alive?</p> <p>Plants</p> <p>Plan Bee: Growing Plants</p>	We Are Scientists

	Plan Bee: Living Habitats	Plan Bee: Exploring Everyday materials	Plan Bee: Growth & Survival	Plan Bee: Super Scientists		
Y3	How do living things work? Animals including humans Plan Bee: Health & Movement	What is the dark? Light Plan Bee: Light & Shadow	What can magnets do? Forces and magnets Plan Bee: Forces & Magnets	Are all Rocks the same? Rocks Plan Bee: Rocks, Fossils & Soils	Do living things need different things to survive? Plants Plan Bee: How Plants Grow	We Are Scientists
Y4	What's the same and what's different? Are living things in danger? Living things and their habitats Plan Bee: Living in Environments	How do we hear different sounds? Sound Plan Bee: Changing Sound	Is water always wet? States of Matter Plan Bee: States of Matter	Can we control Electricity? Electricity Plan Bee: Circuits & Conductors	What do our bodies do with the food we eat? Animals including humans. Plan Bee: Eating & Digestion	We Are Scientists
Y5	Do all life cycles look the same? Living things and their habitats Plan Bee: Life Cycles	What is Moving? Earth and Space Plan Bee: Earth & Space	What Are Things Made from and Can We Change Them? Properties and change of materials. Plan Bee: Changes of Material	How do bodies change as we get older? Animals including humans. Plan Bee: Changes & Reproduction	How do things move? Forces Plan Bee: Forces in Action	We Are Scientists

Y6	What's the same and what's different? Living things and their habitats Plan Bee: Classifying Organisms	How can we vary the effects of electricity? Electricity Plan Bee: Changing Circuits	How do living things change over time and place? Evolution and Inheritance Plan Bee: Evolution & Inheritance	How do we See? Light Plan Bee: Seeing Light	How do our choices affect how our bodies work? Animals including humans. Plan Bee: Healthy Bodies	We Are Scientists
-----------	--	---	--	---	---	--------------------------

PLAN EYFS Matrices:

Nursery

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.
 Use all their senses in hands-on exploration of natural materials.
 Begin to make sense of their own life-story and family's history.
 Explore collections of materials with similar and/or different properties.
 Plant seeds and care for growing plants.
 Talk about the differences between materials and changes they notice.
 Explore how things work.
 Explore and talk about different forces they can feel.

Reception

Recognise some environments that are different to the one in which they live.
 Talk about members of their immediate family and community.
 Name and describe people who are familiar to them.
 Draw information from a simple map.
 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.