



# Science Cycle A & B Overview

## Cycle A – 2022 onwards - (beginning on even academic years)

Term	Reception	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn 1	Happy to be Me! Ourselves Understanding how to look after our body	Living Things and their Habitats Big Idea(s): B1, B3	Animals Including Humans Big Idea(s): B2, B3	Light Big Idea(s): P1, P3
Autumn 2	Time Detectives  Materials  Understanding how different materials feel and respond (clothing – how did we wash clothes/space - gravity)	Uses of Everyday Materials Big Idea(s): C1, C2	Sound Big Idea(s): P1, P3	Electricity Big Idea(s): P1, P3
Spring 1	Environments and Habitats  Investigation  Understanding how and why ice responds the way it does	Living Things and their Habitats Big Idea(s): B1, B3	Electricity Big Idea(s): P1, P3, C2	Living Things and their Habitats Big Idea(s): B2
Spring 2	How Does Your Garden Grow?  Growth  Understanding how plants grow and what they need	Plants Big Idea(s): B1	Solids, Liquids and Gases (States of Matter) Big Idea(s): P2	Evolution and Inheritance Big Idea(s): B3
Summer 1	Bugs Life  Mini-beasts  Exploring the natural world immediately around us	Super Scientists* Additional unit – see non- statutory guidance for details	Living Things and their Habitats Big Idea(s): B1, B2, B3	Animals Including Humans Big Idea(s): B1
Summer 2	Around the World in a Term Floating and sinking/travel and ramps Understanding how certain materials respond in water and why	Animals Including Humans Big Idea(s): B1	Living Things and their Habitats Big Idea(s): B1, B2, B3	Animals Including Humans Big Idea(s): B1





## Science Cycle A & B Overview

## Cycle B – 2023 onwards - (beginning on odd academic years)

Term	Reception	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn 1	Happy to be Me! Ourselves Understanding how to look after our body	Animals Including Humans Big Idea(s): B2, B3	Animals Including Humans Big Idea(s): B1, B2, B3	Earth and Space Big Idea(s): E1, E2
Autumn 2	Time Detectives  Materials  Understanding how different materials feel and respond (clothing – how did we wash clothes/space - gravity)	Everyday Materials Big Idea(s): C1, C2	Light Big Idea(s): P1, P3	Forces Big Idea(s): P1, P2
Spring 1	Environments and Habitats  Investigation  Understanding how and why ice responds the way it does	Animals Including Humans Big Idea(s): B2, B3	Rocks and Fossils Big Idea(s): C1, C2, C3, E3	Properties and Changes of Materials Big Idea(s): C2, C3
Spring 2	How Does Your Garden Grow?  Growth  Understanding how plants grow and what they need	Plants Big Idea(s): B2	Forces and Magnets Big Idea(s): P2	Animals Including Humans Big Idea(s): B1
Summer 1	Bugs Life  Mini-beasts  Exploring the natural world immediately around us	Earth Science – Seasonal Changes Big Idea(s): E2	Plants Big Idea(s): B1, B2, B3	Living Things and their Habitats Big Idea(s): B1, B3
Summer 2	Around the World in a Term Floating and sinking/travel and ramps Understanding how certain materials respond in water and why	Retrieval and enquiry – linked to previously taught units	Super Scientists* Additional unit – see non- statutory guidance for details	Properties and Changes of Materials Big Idea(s): C2, C3





### Science Cycle A & B Overview

#### Science at Scargill - The 'Big Ideas' of Science

The 'Big Ideas' of Science are recurring themes that appear throughout the Science National Curriculum from KS1 to UKS2. Each unit of learning that is taught will link to a 'Big Ideas' focus on the 4 main components of Scientific knowledge: Physics, Chemistry, Biology and Earth Science.

Physics	Chemistry	Biology	Earth Science
P1: The universe follows	C1: All matter (stuff) in the	B1: Living things are special	E1: The Earth is one of eight
unbreakable rules that are all	universe is made up of tiny	collections of matter that make	planets that orbit the sun.
about forces, matter and energy.	building blocks.	copies of themselves, use energy	
		and grow.	E2: The Earth is tilted and spins
P2: Forces are different kinds of	C2: The arrangement,	B2 1	on its axis leading to day and
pushes and pulls that act on all	movement and type of the	B2: Living things on Earth come	night, the seasons and the
the matter that is in the universe. Matter is all the stuff,	building blocks of matter and the forces that hold them together	in a huge variety of different forms that are all related	climate.
or mass, in the universe.	or push them apart explain all	because they all came from the	E3: The Earth is made up of
or mass, in the amverse.	the properties of matter (e.g.	same starting point 4.5 billion	several layers, including a
P3: Energy, which cannot be	hot/cold, soft/hard, light/heavy,	years ago.	relatively thin rocky surface
created or destroyed, comes in	etc).	, ,	which is divided into tectonic
many different forms and tends		B3: The different kinds of life,	plates, and the movement of
to move away from objects that	C3: Matter can change if the	animals, plants and	these plates leads to many
have lots of it.	arrangement of these building	microorganisms, have evolved	geologic events (such as
	blocks changes.	over millions of generations into	earthquakes and volcanoes) and
		different forms in order to survive in the environments in	geographical features (such as mountains).
		which they live.	inountains).
		windi dicy live.	