

Rodbourne Cheney Science progression of skills.

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working	-Finding ways to	-As simple	-As simple	-Ask relevant	-Ask relevant	-Plan different	-Plan different
Scientifically	solve problems.	questions and	questions and	questions and use	questions and use	types of scientific	types of scientific
•	-Make	recognise that	recognise that	different types of	different types of	enquiries to	enquiries to
	Predictions.	they can be	they can be	scientific enquiries	scientific enquiries	answer questions,	answer
	-Test their	answered in	answered in	to answer them.	to answer them.	including	questions,
	ideas.	different ways.	different ways.	-Set up simple	-Set up simple	recognising and	including
	-Develop ideas	-Observe closely,	-Observe closely,	practical enquiries,	practical enquiries,	controlling	recognising and
	of	using simple	using simple	comparative and	comparative and	variables where	controlling
	grouping,	equipment.	equipment.	fair tests.	fair tests.	necessary.	variables where
	sequences,	-Perform simple	-Perform simple	-Make systematic	-Make systematic	-Take	necessary.
	cause and	tests.	tests.	and careful	and careful	measurements,	-Take
	effect.	-Identify and	-Identify and	observations and,	observations and,	using a range of	measurements,
	-Plan and make	classify.	classify.	where appropriate,	where	scientific	using a range of
	decisions about	-Use their	-Use their	take accurate	appropriate, take	equipment, with	scientific
	how	observations and	observations and	measurements	accurate	increasing	equipment, with
	to approach a	ideas to suggest	ideas to suggest	using standard	measurements	accuracy and	increasing
	task.	answers to	answers to	units, using a range	using standard	precision, taking	accuracy and
	-Solve a	questions.	questions.	of equipment,	units, using a	repeat readings	precision, taking
	problem and	-Gather and	-Gather and	including	range of	when	repeat readings
	reach a goal.	record data to	record data to		equipment,	appropriate.	

-Checking how	help in answering	help in answering	thermometers and	including	-Record data and	when
well	questions.	questions.	data loggers.	thermometers and	results of	appropriate.
their activities			-Gather, record,	data loggers.	increasing	-Record data and
are			classify and present	-Gather, record,	complexity using	results of
going.			data in a variety of	classify and	scientific	increasing
-Change			ways to help in	present data in a	diagrams and	complexity using
strategy			answer questions.	variety of ways to	labels,	scientific
as needed			-Record findings	help in answer	classification	diagrams and
-Review how			using simple	questions.	keys, tables,	labels,
well			scientific language,	-Record findings	scatter graphs,	classification
the approach			drawings, labelled	using simple	bar and line	keys, tables,
worked.			diagrams, keys, bar	scientific language,	graphs.	scatter graphs,
			charts, and tables.	drawings, labelled	-Use test results	bar and line
			-Report on findings	diagrams, keys, bar	to make	graphs.
			from enquiries,	charts, and tables.	predictions to set	-Use test results
			including oral and	-Report on findings	up further	to make
			written	from enquiries,	comparative and	predictions to set
			explanations,	including oral and	fair tests.	up further
			displays or	written	-Report and	comparative and
			presentations of	explanations,	present findings	fair tests.
			results and	displays or	from enquiries,	-Report and
			conclusions.	presentations of	including	present findings
			-Use results to	results and	conclusions,	from enquiries,
			draw simple	conclusions.	causal	including
			conclusions, make	-Use results to	relationships and	conclusions,
			predictions for new	draw simple	explanations of	causal
			values, suggest	conclusions, make	and a degree of	relationships and
			improvements and	predictions for	trust in results, in	explanations of

				raise further questions. -Identify differences, similarities or changes related to simple scientific ideas and processes. -Use straightforward scientific evidence to answer questions or to support their findings.	new values, suggest improvements and raise further questions. -Identify differences, similarities or changes related to simple scientific ideas and processes. -Use straightforward scientific evidence to answer questions or to	oral and written forms such as displays and other presentations. -Identify scientific evidence that has been used to support or refute ideas or arguments.	and a degree of trust in results, in oral and written forms such as displays and other presentations. -Identify scientific evidence that has been used to support or refute ideas or arguments.
					support their findings.		
Knowledge	Physical	<u>Plants</u>	Living things and	<u>Plants</u>	Living things and	Living things and	Living things and
	<u>development</u>	-Identify and	<u>their habitats</u>	- Identify and	<u>their habitats</u>	<u>their habitats</u>	<u>their habitats</u>
	-Know and talk	name a variety of	-Explore and	describe the	- Recognise that	- Describe the	-Describe how
	about the	common wild and	compare the	functions of	living things can	differences in the	living things are
	different factors	garden plants,	differences	different parts of	be grouped in a	life cycles of a	classified into
	that support	including	between things	flowering plants:	variety of ways	mammal, an	broad groups
	their overall	deciduous and	that	roots,	- Explore and use	amphibian, an	according to
	health and	evergreen trees.	are living, dead,	stem/trunk, leaves	classification	insect and a bird.	common
	wellbeing:		and things that	and flowers.			observable

- regular	-Identify and	have never been	- Explore the	keys to help group,	- Describe the life	characteristics
physical activity	describe the basic	alive.	requirements of	identify and	process of	and based on
 healthy eating 	structure of a	- Identify that	plants for life and	name a variety of	reproduction in	similarities and
 toothbrushing 	variety of	most living things	growth (air <i>,</i>	living things in	some plants and	differences,
- sensible	common	live in habitats to	light, water,	their local and	animals.	including
amounts of	flowering plants,	which they are	nutrients from soil,	wider environment		microorganisms,
'screen time'	including trees.	suited and	and room to grow)	-Recognise that	<u>Animals,</u>	plants
 having a good 		describe how	and how they	environments	including humans	and animals.
sleep routine	Animals, including	different	vary from plant to	can change and	- Describe the	- ve reasons for
 being a safe 	<u>humans</u>	habitats provide	plant.	that this can	changes as	classifying plants
pedestrian	- Identify and	for the basic	- Investigate the	sometimes pose	humans	and animals
	name a variety of	needs of	way in which	dangers to living	develop to old	based on specific
-Understand the	common animals	different kinds of	water is	things.	age.	characteristics.
importance of	including fish,	animals	transported within			
exercise,	amphibians,	and plants, and	plants.	Animals, including	Properties and	<u>Animals</u>
healthy eating	reptiles, birds and	how they depend	- Explore the part	<u>humans</u>	changes of	including
and sleep.	mammals	on each other.	that flowers	- Describe the	<u>materials</u>	<u>humans</u>
	- Identify and	- Identify and	play in the life cycle	simple functions of	- Compare and	-Identify and
-Use picture	name a variety of	name a variety of	of flowering	the basic parts of	group together	name the main
books and other	common animals	plants and	plants, including	the digestive	everyday	parts
resources to	that are	animals in their	pollination, seed	system in humans.	materials on the	of the human
explain the	carnivores,	habitats,	formation and seed	-Identify the	basis of	circulatory
importance of	herbivores and	including	dispersal.	different types of	their properties,	system,
the different	omnivores.	microhabitats.		teeth in humans	including their	and describe the
aspects of a	- Describe and	- Describe how	Animals, including	and their simple	hardness,	functions of the
healthy lifestyle.	compare the	animals obtain	<u>humans</u>	functions.	solubility,	heart, blood
		their food from	- Identify that	-Construct and	transparency,	vessels and
		plants and other	animals, including	interpret a variety		blood.

Understanding	structure of a	animals, using	humans, need the	of food chains,	conductivity	- Recognise the
the world	variety of	the idea of a	right types and	identifying	(electrical and	impact of diet,
-Explore the	common	simple	amount of	producers,	thermal), and	exercise, drugs
natural world	animals (fish,	food chain, and	nutrition, and that	predators and	response to	and lifestyle on
around them.	amphibians,	identify and	they	prey.	magnets.	the
	reptiles,	name	cannot make their		- Know that some	way their bodies
-Take part in	birds and	different sources	own food; they	States of matter	materials will	function.
frequent	mammals,	of food.	get nutrition from	- Compare and	dissolve in liquid	- Describe the
opportunities	including		what they eat.	group materials	to form a	ways in which
for outdoor play	pets).	<u>Plants</u>	- Identify that	together,	solution, and	nutrients and
and exploration.	- Identify, name,	-Observe and	humans and some	according to	describe how to	water are
	draw and label	describe how	other animals have	whether	recover a	transported
Interact with	the basic parts of	seeds	skeletons and	they are solids,	substance from a	within animals,
the outdoors to	the human body	and bulbs grow	muscles for	liquids or gases.	solution.	including
foster curiosity	and say which part	into mature	support, protection	- Observe that	 Use knowledge 	humans.
and develop	of the body is	plants.	and movement.	some materials	of solids, liquids	
ideas about	associated with	- Find out and		change state when	and gases to	Evolution and
freedom to	each sense.	describe how	<u>Rocks</u>	they are	decide how	<u>inheritance</u>
touch, smell and		plants	- Compare and	heated or cooled,	mixtures	- Recognise that
hear the natural	<u>Everyday</u>	need water, light	group together	and measure or	might be	living things have
world around	<u>Materials</u>	and a suitable	different kinds of	research the	separated,	changed over
them during	-Distinguish	temperature to	rocks on the	temperature at	including	time and that
hands-on	between an object	grow and stay	basis of their	which this happens	through filtering,	fossils
experiences.	and the material	healthy.	appearance and	in degrees	sieving and	provide
	from which it is		simple physical	Celsius (°C).	evaporating.	information
-Discuss how we	made.	<u>Animals,</u>	properties.	- Identify the part	- Give reasons,	about living
care for the	- Identify and	including	- Describe in simple	played by	based on	
	name a variety of	<u>humans</u>	terms how		evidence	

natural world	everyday	- Notice that	fossils are formed	evaporation and	from comparative	things that
around us.	materials,	animals,	when things	condensation in	and fair tests,	inhabited the
	including	including	that have lived are	the water cycle	for the particular	Earth
-Sing songs and	wood, plastic,	humans, have	trapped within	and associate the	uses of everyday	millions of years
join in with	glass, metal,	offspring which	rock.	rate of evaporation	materials,	ago.
rhymes and	water,	grow into adults.	- Recognise that	with	including metals,	- Recognise that
poems about	and rock.	- Find out about	soils are made	temperature.	wood	living things
the natural	- Describe the	and describe the	from rocks and		and plastic.	produce
world.	simple physical	basic needs of	organic matter.	<u>Sound</u>	- demonstrate	offspring of the
	properties of a	animals,		- Identify how	that dissolving,	same
-Observe and	variety of	including	<u>Light</u>	sounds are made,	mixing and	kind, but
draw pictures of	everyday	humans, for	- Recognise that	associating some	changes of state	normally
the natural	materials.	survival (water,	they need light in	of them with	are	offspring vary
world, including	- Compare and	food	order to see things	something	reversible	and are not
animals and	group together a	and air).	and that dark	vibrating.	changes.	identical to their
plants.	variety of	- Describe the	is the absence of	- Recognise that	- Explain that	parents.
	everyday	importance for	light.	vibrations from	some changes	- Identify how
-Observe and	materials on	humans of	- Notice that light is	sounds travel	result	animals and
interact with	the basis of their	exercise, eating	reflected	through a medium	in the formation	plants
natural	simple physical	the	from surfaces.	to the ear.	of new materials,	are adapted to
processes, such	properties.	right amounts of	- Recognise that	- Find patterns	and that this kind	suit their
as ice melting, a		different types of	light from the sun	between the pitch	of change is not	environment in
sound causing a	Seasonal Change	food, and	can be dangerous	of a sound and	usually reversible,	different ways
vibration, light	-Observe changes	hygiene.	and that there	features of the	including	and
travelling	across the four		are ways to protect	object that	changes	that adaptation
through	Seasons.	Uses of everyday	their eyes.	produced it.	associated with	may lead to
transparent	-Observe and	<u>materials</u>	- Recognise that	- Find patterns	burning	evolution.
material, an	describe weather		shadows are	between the		

object casting a	associated with	-Identify and	formed when the	volume of a sound	and the action of	Light
shadow, a	the seasons and	compare the	light from a light	and the	acid on	- Recognise that
magnet	how day length	suitability of a	source is blocked	strength of the	bicarbonate of	light appears to
attracting an	varies.	variety of	by an opaque	vibrations that	soda.	travel in straight
object and a		everyday	object.	produced it.		lines.
boat floating on		materials,	- find patterns in	- Recognise that	Earth and space	- Use the idea
water.		including wood,	the way that the	sounds get fainter	- Describe the	that light travels
		metal, plastic,	size of shadows	as the distance	movement of the	in
Observe the		glass, brick, rock,	change.	from the sound	Earth, and other	straight lines to
natural world		paper		source increases.	planets, relative	explain that
and describe		and cardboard	Forces and		to the Sun in the	objects are seen
and comment		for particular	<u>magnets</u>	Electricity	solar system.	because they
on things they		uses.	- Compare how	 Identify common 	- Describe the	give out or
have seen whilst		- Find out how	things move on	appliances that	movement of the	reflect light into
outside,		the shapes of	different surfaces.	run on electricity.	Moon relative to	the
including plants		solid	- Notice that some	- Construct a	the Earth.	eye.
and animals.		objects made	forces need	simple series	- Describe the	-Explain that we
		from some	contact between	electrical circuit,	Sun, Earth and	see things
-Positively		materials can be	two objects, but	identifying and	Moon as	because light
interact with		changed by	magnetic forces	naming its basic	approximately	travels from light
the outside		squashing,	can act at a	parts, including	spherical	sources to our
world and take		bending, twisting	distance.	cells, wires, bulbs,	Bodies.	eyes or from
supported risks,		and	- Observe how	switches and	-Use the idea of	light
appropriate to		stretching.	magnets attract or	buzzers.	the Earth's	sources to
themselves and			repel each other	- Identify whether	rotation to	objects and then
the			and attract some	or not a lamp	explain day and	to our
environment			materials and not		night	eyes.
			others.			

within which	-compare and	will light in a	and the apparent	- use the idea
	•	-	movement of	
they are in.	group together a	simple series		that light travels
Newsered	variety of everyday	circuit,	the sun across the	in straight lines to
-Name and	materials on	based on whether	sky.	straight lines to
describe some	the basis of	or not the lamp	_	explain why
plants and	whether they are	is part of a	Forces	shadows have
animals.	attracted to a	complete loop	- Explain that	the same shape
	magnet, and	with a	unsupported	as
-Recognise	identify some	battery.	objects	the objects that
familiar plants	magnetic materials	- Recognise that a	fall towards the	cast them.
and animals	 describe magnets 	switch opens	Earth because of	
whilst outside.	as having two	and closes a circuit	the force of	Electricity
	Poles.	and associate	gravity acting	- Associate the
-Notice features	- Predict whether	this with whether	between the	brightness of a
in the natural	two magnets	or not a lamp	Earth and the	lamp or the
world and	will attract or repel	lights in a simple	falling	volume of a
define colours,	each other,	series circuit.	object.	buzzer
shapes, texture	depending on	- Recognise some	- Identify the	with the number
and smells in	which poles are	common	effects of air	and voltage of
their own	facing.	conductors and	resistance, water	cells used in the
words.		insulators, and	resistance and	circuit.
		associate metals	friction, that act	- Compare and
-Notice the		with being good	between moving	give reasons for
weather and		conductors.	surfaces.	variations in how
seasonal			- Recognise that	components
features.			some	function,
			mechanisms,	including the
			including levers,	brightness

-0	Observe how		pulleys and gears,	of bulbs, the
ani	nimals behave		allow a smaller	loudness of
dif	ifferently as		force to have a	buzzers
the	ne seasons		greater effect.	and the on/off
cha	nange.			position of
				switches.
<u>Ex</u>	xpressive arts			- Use recognised
an	nd design			symbols when
-Ве	Begin to be			representing a
int	terested in			simple circuit in
an	nd describe the			a diagram.
tex	exture of			
thi	nings.			