





#### **EYFS Understanding the World**

Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur, and talk about changes.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Ourselves.	Seasonal change –	Seasonal change –	Seasonal change –	Seasonal change –	Animals, mini-beasts
	Naming body parts and	Autumn.	Winter.	Spring.	Summer.	and habitats.
	their uses.	Light and dark.	Floating and sinking.	Materials – naming and	Plants and growing.	Exploring different
Scientific Knowledge	Naming and	Identifying and naming	Absorbency.	describing.	Naming simple parts of	habitats around school.
	investigating the	sources of light.		Magnetism.	a plant.	
	senses.					

#### To Plan

To ask questions to find out more, including 'why' questions.

To describe what they see using a range of vocabulary.

To choose the right resources to carry out their plan.

#### To Do

**Working Scientifically** 

To use new vocabulary when observing.

To compare quantities using the language of 'more than' and 'fewer than'. To develop fine motor skills to use tools safely and competently.

To make comparisons between objects relating to size, length, weight and capacity.

#### To Review

To write words and short sentences using known sounds to record simple observations.

To begin to describe a sequence of events.

To present information using drawings.

To articulate their ideas and thoughts using well-formed sentences.

### Year 1/2

	Scientific Knowledge			Working Scientifically
	Autumn Term	Spring Term	Summer Term	working odentinearly
Week 1	Plants Introduce the names and images of wild and garden plants.	Plants Introduce the names and images of evergreen and deciduous trees.	Milestone 1 (Basic) Living Things and Their Habitats *(Y2) Investigate and compare the differences between things that are living, that are dead and have never been alive.	By growing seeds, bulbs and vegetables throughout the year:  • *(Y2) Observe and describe how seeds and bulbs
Week 2	Milestone 1 (Basic) Plants Introduce the structure of flowering plants.	Milestone 1 (Basic) Plants Introduce the structure of trees.	Milestone 1 (Basic) Living Things and Their Habitats *(Y2) Investigate the basic needs of animals and humans.	grow into mature plants.  • *(Y2) Find out and describe how plants need water,
Week 3	Animals, including Humans Introduce the names and images of birds, fish, amphibians, reptiles, mammals and invertebrates (Lesson 1).	Animals, including Humans *(Y1) Introduce the groups: Carnivore, Herbivore and Omnivore.	Milestone 1 (Basic/Advancing) Living Things and Their Habitats *(Y2) Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other (Lesson 1).	light, a suitable temperature to grow and stay healthy.  In PE lessons:  • *(Y2) Describe the importance for humans of exercise, eating the right
Week 4	Animals, including Humans Introduce the names and images of birds, fish, amphibians, reptiles, mammals and invertebrates (Lesson 2).	Animals, including Humans *Introduce parts of the human body and associate parts of the body with the five senses.	Milestone 1 (Basic/Advancing) Living Things and Their Habitats *(Y2) Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other (Lesson 2).	amounts of different types of food, and hygiene.  Through experiment tables set up at various points throughout the year:  • Notice how things move, using

Week 5	Animals, including Humans *(Y1) Describe and compare the structure of birds, fish, amphibians, reptiles, mammals and invertebrates.	Milestone 1 (Basic) Animals, including Humans *(Y2) Describe the offspring and growth of animals and humans into adulthood.	Milestone 1 (Basic/Advancing) Living Things and Their Habitats *(Y2) Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other (Lesson 3).	_
Week 6	Everyday Materials Introduce a range of everyday materials, including wood, plastic, glass, metal, water and rock.	Milestone 1 (Basic) Animals, including Humans Identify how humans resemble their parents in many features.	Milestone 1 (Basic) Sound and Hearing Observe and name a variety of sources of sound, noticing we hear with our ears.	<ul> <li>Observe changes across the four seasons.</li> <li>*(Y1) Observe and describe weather associated</li> </ul>
Week 7	Everyday Materials  *(Y1/2) Distinguish between an object and the material from which it is made (and in doing so, identify and compare the uses of a variety of everyday materials.)	Everyday Materials  *(Y1) Describe the simple properties of a variety of everyday materials.	Milestone 1 (Basic) Sound and Hearing Discriminate between similar sounds.	with the seasons and how day length varies.  Observe the apparent movement of the sun throughout the day.
Week 8	Milestone 1 (Basic) Electrical Circuits Identify common appliances that run on electricity.	Everyday Materials  *(Y1) Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Milestone 1 (Basic) Sound and Hearing Discriminate between different sounds.	Year 1 <i>Working Scientifically</i> National Curriculum Statements:
Week 9	Milestone 1 (Basic) Electrical Circuits Construct a simple series- circuit.	Milestone 1 (Basic) Light and Seeing Observe and name a variety of sources of light.	Milestone 1 (Basic) Everyday Materials Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Ask simple questions and recognising that they can be answered in different ways
Week 10	Milestone 1 (Basic) Electrical Circuits Experiment with simple series	Milestone 1 (Basic) Light and Seeing Explain that we see sources of	Milestone 1 (Advancing) Light and Seeing Experiment with ways to block	observing closely, using simple equipment.

	circuits.	light because the light travels from the source to our eyes.	light and make shadows.	<ul> <li>Perform simple tests.</li> <li>Identify and classify.</li> <li>Use their observations and ideas to suggest answers to questions.</li> <li>Gather and record data to help in answering questions.</li> </ul>
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# Science Coverage for Year 2/3 2023 - 2024 Milestone 1 Statements

Scientific Knowledge			Working Scientifically
Autumn Term	Spring Term	Summer Term	
Milestone 1 (Advancing) Plants What are the similarities and differences between deciduous and evergreen trees?	*(Y2) What are the similarities and differences in the growth of seeds and bulbs?	Milestone 1 (Advancing) Animals, including Humans Explain why the sense of touch may be important to a blind person.	Through experiment tables set up at throughout the year:  • Experiment with pushing objects
Milestone 1 (Advancing) Plants Think of some ways to categorise plants.	*(Y2) How could you try to revive these plants? <i>Give pupils a dried-</i>	Milestone 1 (Advancing) Animals, including Humans *(Y2) Categorise food types and explain why each group is important to humans.	gently and hard. Record and explain what happens. • Experiment with a slope and record how this changes
Milestone 1 (Advancing) Animals, including Humans Point out explain the main differences between birds, fish, amphibians, reptiles, mammals, and invertebrates.	Milestone 1 (Advancing) Plants *(Y3) Taking a selection of (real) different flowering plants, what are the structural features?	Milestone 1 (Advancing) Animals, including Humans *(Y2) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.  Describe a healthy diet for a human.	the speed at which an object rolls.  Compare the movement of remote-control cars and a helicopter drone. Explain the differences in movement.
Milestone 1 (Advancing) Animals, including Humans Compare and contrast mammals with amphibians.	Animals, including Humans *(Y2) Describe the basic needs of	rinings and rinen riabitats	Year 2 Working Scientifically National Curriculum Statements:

			40.00	
			*(Y2) Categorise animals/plants	
			according to the conditions they	
			require.	
	Milestone 1 (Advancing) Animals,		Milestone 1 (Advancing) Living	
	_	Animals, including Humans	Things and Their Habitats	
	•	Show how carnivores, herbivores	*(Y2) Explain the differences in a	
	between adult animals and	and omnivores are similar and	food chain for an herbivore and a	
	humans and their offspring.	different.	carnivore.	
Week 6	Milestone 1 (Advancing) Animals,	Milestone 1 (Advancing) Living	Milestone 1 (Advancing)	
	including Humans	Things and Their Habitats	Materials	
	*(Y2) Present similarities and	*(Y2) Compare the types of food	*(Y2) Compare and contrast the	
	differences between parents and	that different animals require.	different properties of materials	
	their children.		and use this to explain why	
			certain materials are used for	
			particular purposes.	
			Experiment with changing the	
			shape of solid objects. Organise	
			and summarise your findings.	
			and summarise your mismigs.	
Week 7	Milestone 1 (Advancing)	Milestone 1 (Advancing) Living	Milestone 1 (Advancing) Seasons	
	Materials	Things and Their Habitats	and Space	
	Explain how a glass bottle is made	*(Y2) Organise things of your	Organise images or objects from	Year
	_	choice into groups: living, dead		Natio
		and never been alive.		State
	how they were made from their		, ,	
	original material.			
	3			
Week 8	Milestone 1 (Advancing)	Milestone 1 (Advancing)	Milestone 1 (Advancing) Seasons	
	Materials	Electrical Circuits	and Space	
	Decide how to group the	Categorise electrical appliances.	Show how you might know	
	materials on the basis of their	Explain the reasons for your	(apply) roughly what time it is in a	
		categories.	day by looking at the position of	
	properties. Explain your reasons			
			the sun.	
	for your groups.			
	for your groups. Explain why the properties of	Compare and contrast some		
	for your groups. Explain why the properties of materials are useful for deciding	Compare and contrast some appliances in each of your		
	for your groups. Explain why the properties of materials are useful for deciding	Compare and contrast some		

questions and recognising that they can be answered in different ways observing closely, using simple equipment.

- Perform simple tests.
- Identify and classify.
- Use their observations and ideas to suggest answers to questions.
- Gather and record data to help in answering questions.

### Year 3 *Working Scientifically* National Curriculum Statements

- Ask relevant questions and using different types of scientific enquiries to answer them.
- Set up simple practical enquiries, comparative and fair tests.
- Make systematic and careful observations and, where appropriate,

Week 9	Milestone 1 (Advancing) Sound	Milestone 1 (Advancing)	Milestone 1 (Basic/Advancing)	taking accurate
	and Hearing	Electrical Circuits	Seasons and Space	measurements using
	Categorise sounds.	Modify a circuit to add	Compare and contrast weather	standard units, using
		components.	and day length across the four	a range of
			seasons.	equipment,
		Experiment with and categorise		including
		the effect adding more	Identify patterns in day length	thermometers and
		components has.	across the four seasons.	data loggers.
Week 10	Milestone 1 (Advancing) Sound	Milestone 1 (Deep) Electrical	Milestone 1 (Advancing) Light	<ul> <li>Gather, record,</li> </ul>
	and Hearing	Circuits	and Seeing	classify and present
	Compare and contrast sounds	Experiment with broken circuits.	*(Y3) Experiment with ways to	data in a variety of
	based on your own criteria (pupils		block light from reaching our	ways to help in
	choose).		eyes.	answering
			Point out how this demonstrates	questions.
			that light travels from a source to	<ul> <li>Record findings</li> </ul>
			our eyes.	using simple
				scientific language,
				drawings, labelled
				diagrams, keys, bar
				charts, and tables.
				<ul> <li>Report on</li> </ul>
				findings from
				enquiries, including
				oral and written
				explanations,
				displays or
				presentations of
				results and
				conclusions.
				<ul> <li>Use results to</li> </ul>
				draw simple
				conclusions, make
				predictions for new
				values, suggest
				improvements and
				raise further
				questions.
				<ul><li>Identify</li></ul>

		differences, similarities or
		changes related to
		simple scientific
		ideas and
		processes.
		• Use
		straightforward
		scientific evidence
		to answer questions
		or to support their
		findings.





# Science Coverage for Year 3/4 2023 - 2024 National Curriculum Statements

		Scientific Knowledge		
	Autumn Term	Spring Term	Summer Term	Working Scientifically
Week 1	flowering plants: roots, stem/trunk, leaves and flowers.	Year 3 Plants  *(Y3) Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.	be grouped in a variety of ways.	<ul> <li>Ask relevant questions and using differen types of scientific enquiries to answer them.</li> <li>Set up simple practical enquiries, comparative and fair tests.</li> <li>Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.</li> <li>Gather, record, classify and present data in a variety of ways to help in answering questions.</li> <li>Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.</li> <li>Report on findings</li> </ul>
Week 2	*(Y3) Investigate the way in which water is transported within plants.	Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	Year 4 Living things and their Habitats Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.	
Week 3	Identify that animals, including humans, need the right types	identifying producers, predators	Year 4 Living things and their Habitats *(Y4) Recognise that environments can change and that this can sometimes pose dangers to living things.	
Week 4	Year 3 Animals, including Humans	Year 4 Animals, including Humans	Year 3 <i>Light</i> *(Y3) Recognise that shadows	from enquiries, including oral and written explanations,

Week 5	*(Y3) Identify that humans and some other animals have skeletons and muscles for support, protection and movement.  Year 4 Animals, including Humans Identify the different types of teeth in humans and their simple functions.	others.  Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic	are formed when the light from a light source is blocked by an opaque object.  Year 3 Light *(Y3) Find patterns in the way that the size of shadows change.	displays or presentations of results and conclusions.  Use results to draw simple conclusions, make predictions for 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 support their findings.
		materials.		
Week 6	Year 3 Forces and Magnets Compare how things move on different surfaces.	Year 4 States of Matter Compare and group materials together, according to whether they are solids, liquids or gases.	Year 4 States of Matter  *(Y4) Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	
Week 7	Year 3 Forces and Magnets Describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.  *(Y3) Notice that some forces need contact between two objects, but magnetic forces can	Year 4 States of Matter *(Y4) Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C).	Year 4 Electricity Identify common appliances that run on electricity.  Recognise some common conductors and insulators, and associate metals with being good conductors.	

act at a distance.		
*(Y3) Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	Recognise that they need light in order to see things and that dark is the absence of light.  Notice that light is reflected from surfaces.	made, associating some of them with something vibrating.
*(Y3) Describe in simple terms how fossils are formed when	Recognise that light from the sun can be dangerous and that there	
Recognise that soils are made from rocks and organic matter.	Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.	Year 4 Sound  *(Y4) Find patterns between the pitch of a sound and features of the object that produced it.  *(Y4) Find patterns between the volume of a sound and the strength of the vibrations that produced it





# Science Coverage for Year 4/5 2023 - 2024 National Curriculum Statements

	Scientific Knowledge			Working Scientifically
	Autumn Term	Spring Term	Summer Term	
Week 2	Recognise that living things can be grouped in a variety of ways.  Year 4 Living things and their Habitats  Explore and use classification keys to help group, identify and name a variety of living things in	amphibian, an insect and a bird.  Year 5 Living things and their Habitats	#(Y4) Describe the simple functions of the basic parts of the digestive system in humans.  Identify the different types of teeth in humans and their simple functions.  Year 5 Animals, including  Humans  Describe the changes as humans	<ul> <li>Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and</li> </ul>
Week 3	that this can sometimes pose dangers to living things.	Humans *(Y4) Construct and interpret a variety of food chains, identifying producers, predators and prey.	Year 5 Properties and Change of Materials *(Y5) Demonstrate that dissolving, mixing and changes of state are reversible changes.	<ul> <li>answering questions.</li> <li>Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.</li> <li>Report on findings</li> </ul>
Week 4	Year 4 States of Matter	Year 5 Properties and Change of	Year 5 Properties and Change of	from enquiries, including oral

	together, according to whether they are solids, liquids or gases.	Materials  *(Y5) Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.	Materials  *(Y5) Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	and written explanations, displays or presentations of results and conclusions.  Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.  Identify differences, similarities or changes
Week 5	materials change state when they are heated or cooled, and measure or research the	Year 5 Properties and Change of Materials  *(Y5) Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.	*(Y5) Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.	related to simple scientific ideas and processes.  • Use straightforward scientific evidence to answer questions or to support their findings.  Year 5
Week 6	evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	` '	Year 5 Forces  *(Y5) Identify the effects of air resistance, water resistance and friction that act between moving surfaces (lesson 1).	<ul> <li>Plan enquiries, including recognising and controlling variables where necessary.</li> <li>Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work.</li> </ul>
Week 7	*(Y4) Identify how sounds are made, associating some of them with something vibrating.	Year 5 Properties and Change of Materials  *(Y5) Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.	Year 5 Forces  *(Y5) Identify the effects of air resistance, water resistance and friction that act between moving surfaces (lesson 2).	<ul> <li>Take measurements, using a range of scientific equipment, with increasing accuracy and precision.</li> <li>Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.</li> <li>Report findings from enquiries, including oral and</li> </ul>

	pitch of a sound and features of the object that produced it.  *(Y4) Find patterns between the volume of a sound and the strength of the vibrations that produced it.	Identify common appliances that run on electricity.  Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.	mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	written explanations of results, explanations involving causal relationships, and conclusions.  • Present findings in written form, displays and other presentations.  • Use test results to make predictions to set up further comparative and fair tests.
	Earth, and other planets, relative to the Sun in the solar system.	conductors and insulators, and associate metals with being good conductors.	Year 4 Electricity Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.	<ul> <li>Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments.</li> </ul>
	rotation to explain day and night	and Moon as approximately	Year 4 Electricity Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.	





# Science Coverage for Year 5/6 2023 - 2024 National Curriculum Statements

		Scientific Knowledge		Working Scientifically
	Autumn Term	Spring Term	Summer Term	
Week 1 Week 2	Year 5 Living things and their Habitats *(Y5) Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.  Year 5 Living things and their Habitats	Year 6 Electricity *(Y6) Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.  Year 6 Electricity	Year 6 Animals, including Humans *(Y6) Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.  Year 6 Animals, including Humans	<ul> <li>Plan enquiries, including recognising and controlling variables where necessary.</li> <li>Use appropriate techniques, apparatus, and materials during fieldwork and</li> </ul>
	*(Y5) Describe the life process of reproduction in some plants and animals.	Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.	Describe the ways in which nutrients and water are	laboratory work.  Take measurements, using a range of scientific equipment, with increasing accuracy and
Week 3	Year 5 Animals, including Humans Describe the changes as humans develop to old age.	Year 6 Living things and their Habitats  *(Y6) Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals.	Year 5 Properties and Change of Materials  *(Y5) Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.	precision.  Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.

Week 4	Year 6 Animals, including Humans *(Y6) Recognise the impact of diet, exercise; drugs and lifestyle on the way their bodies function.	Year 6 Living things and their Habitats Give reasons for classifying plants and animals based on specific characteristics.	Year 5 Properties and Change of Materials *(Y5) Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	<ul> <li>Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.</li> <li>Present findings in written form,</li> </ul>
Week 5	Year 5 Properties and Change of Materials  *(Y5) Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.	Year 5 Properties and Change of Materials  *(Y5) Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.	Year 5 Forces *(Y5) Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	displays and other presentations.  Use test results to make predictions to set up further comparative and fair tests.  Use simple models to describe scientific ideas, identifying scientific
Week 6	Year 5 Properties and Change of Materials  *(Y5) Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.	Year 5 Properties and Change of Materials *(Y5) Demonstrate that dissolving, mixing and changes of state are reversible changes.	Year 5 Earth and Space *(Y5) Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	evidence that has been used to support or refute ideas or arguments.
Week 7	Year 5 Forces  *(Y5) Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.	Year 5 Earth and Space *(Y5) Describe the Sun, Earth and Moon as approximately spherical bodies.	<b>Year 5 Earth and Space</b> Describe the movement of the Moon relative to the Earth.	

Week 8	Year 5 Forces  *(Y5) Identify the effects of air resistance, water resistance and friction that act between moving surfaces (lesson 1).	Year 5 Earth and Space Describe the movement of the Earth, and other planets, relative to the Sun in the solar system.	Year 6 Evolution and Inheritance Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.  Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.	
Week 9	Year 5 Forces  *(Y5) Identify the effects of air resistance, water resistance and friction that act between moving surfaces (lesson 2).	Year 6 Evolution and Inheritance *(Y6) Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.	*(Y6) Use the idea that light travels in straight lines to explain	
Week 10	Year 6 Electricity *(Y6) Use recognised symbols when representing a simple circui in a diagram.	Year 6 Light  *(Y6) Recognise that light appears tto travel in straight lines.  *(Y6) Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.	Year 6 Light Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.	