



| | EYFS | | KS1 | | <u>K52</u> | | | | <u>KS3</u> | |
|--------------------------------|--|---|---|---|---|---|--|---|--|--|
| Biology | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 🥡 | |
| Animals including humans | Learns new vocabulary - Learn the names of key body parts (communication and language). Make healthy choices about food, drink, activity and toothbrushing (personal, social and emotional development). Begin to make sense of their own life story. | Use a wider range of vocabulary - Learn the names of a wider range of body parts (communication and language). Know and talk about the different factors that support their overall health and wellbeing (personal, social and emotional development). Talk about how they have grown and changed from a baby. | Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. | Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. Notice that animals, including humans, have offspring which grow into adults. | Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. Identify that humans and some other animals have skeletons and muscles for support, protection and movement. | 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. Construct and interpret a variety of food chains, identifying producers, predators and prey. | Describe the changes as humans develop to old age. | Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans. Identify and name the main parts of the human circulatory system, and | Movement in and out of cells. Cell structure and use of microscopes. Communicable and noncommunicable disease; pathogens; development of drugs; immunity. Control of blood glucose and body temperature. Control of water levels and kidney treatment. The skeleton. | |









| | EYFS | | KS1 | | KS2 | | | | <u>KS3</u> |
|--|---|---|--------|--|--------|---|---|---|---|
| Biology | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Living things and their habitats | Begin to understand the need to respect and care for the natural environment and all living things. | Explore the natural world around them, making observations and drawing pictures of animals and plants (ELG). | | Identify and name a variety of plants and animals in their habitats, including microhabitats.Explore and compare the differences between things that are living, dead, and things that have never been alive.Identify that most living things live in habitats to which they are suited and describe how different habitats provide | | Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. Recognise that environments can change and that this can sometimes pose dangers to living things. | Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals. | Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals. Give reasons for classifying plants and animals based on specific characteristics. | Animal reproduction. Plant reproduction. |





| | - gen |
|---|-------|
| for the basic needs of different kinds of animals and plants, and how they depend on each other. | |
| Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. | |





| | EYFS | | <u>KS1</u> | | <u>KS2</u> | | | | <u>K53</u> |
|---------|--|---|---|---|--|---|--|---|------------------------|
| Biology | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 🐺 |
| Plants | Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant (sunflower, bean). Begin to understand the need to respect and care for the natural environment and all living things. | Plant seeds and care for growing plants. Revisit the lifecycles learnt in Nursery and learn key features of new plant lifecycles (pumpkin, strawberry). Explore the natural world around them, making observations and drawing pictures of plants (ELG). | Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees. | Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Identify and name a variety of plants and animals in their habitats, including microhabitats (living things and their habitats). | Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. 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. Investigate the way in which water is | Recognise that living things can be grouped in a variety of ways (including plants) (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 (including plants) (living | Describe the life process of reproduction in some plants and animals (living things and their habitats). | Describe how living things are classified into groups according to common observable characteristics and based on similarities and differences, plants (living things and their habitats). Give reasons for classifying plants based on specific characteristics (living things and their habitats). | Plant reproduction. |





| | | transported within plants. | things and their habitats). | | |
|--|--|--|-----------------------------------|--|--|
| | | Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. | | | |





| | EYFS | | KS1 | | <u>K52</u> | | | | <u>KS3</u> |
|---------------------------------|---------|-----------|--------|--|--|---|--------|--|------------|
| Biology | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Evolution and inheritance | | | | 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 (living things and their habitats). | Describe in simple terms how fossils are formed when things that have lived are trapped within rocks (living things and their habitats). | Recognise that environments can change and that this can sometimes pose dangers to living things (living things and their habitats). | | Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. | |



St Peter's Catholic Academy Progression within the Science Curriculum



| | | | plants are adapted to suit | |
|--|--|---|-------------------------------|--|
| | | 1 | their | |
| | | e | environment in | |
| | | c | different ways | |
| | | c | and that | |
| | | c | adaptation may | |
| | | | lead to | |
| | | e | evolution. | |





| | EYFS | | <u>KS1</u> | | <u>K52</u> | | | | <u>K53</u> |
|--------------------------------|--|--|---|--------|------------|--------|--|--------|------------|
| Physics | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Physics Seasonal changes | Nursery Talk about what they see, using a wide vocabulary (during seasonal walks and exploration). | Reception Understand some important processes and changes in the natural world around them, including the seasons (ELG). | Year 1Observechanges acrossthe 4 seasons.Observe anddescribeweather | Year 2 | Year 3 | Year 4 | Vear 5 Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the | Year 6 | Year / |
| | | seusons (LLO). | associated with the seasons and how day length varies. | | | | sky (earth and space). | | |





| | EYFS | | <u>KS1</u> | | KS2 | <u>KS3</u> | | | |
|---------|---------|-----------|------------|--------|--------|---|--------|--------|--------|
| Physics | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Sound | | | | | | Identify how sounds are made, associating some of them with something vibrating. | | | |
| | | | | | | Recognise that vibrations from sounds travel through a medium to the ear. | | | |
| | | | | | | Find patterns between the pitch of a sound and features of the object that produced it | | | |
| | | | | | | Find patterns between the volume of a sound and the | | | |





| | strength of the vibrations that produced it. | |
|--|---|--|
| | Recognise that sounds get fainter as the distance from the sound source increases. | |





| | EYFS | | <u>K51</u> | | <u>KS2</u> | | | | <u>K53</u> |
|--------------------------|--|-----------|------------|--------|--|--------|---|--------|--|
| Physics | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Forces and magnets | Explore and talk about different forces they can feel. | | | | Compare how things move on different surfaces. Notice that some forces need contact between 2 objects, but magnetic forces can act at a distance. Observe how magnets attract or repel each other and attract some materials and not others. | | Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. | | Types of forces. Balanced and unbalanced forces. |
| | | | | | Compare and group together a variety of everyday materials on the basis of whether | | Recognise that some mechanisms including levers, pulleys | | |





| | | -3 |
|---|--|----|
| they are attracted to a magnet and identify some magnetic materials. | and gears allow a smaller force to have a greater effect. | |
| Describe magnets as having 2 poles. Predict whether 2 magnets will attract or repel each other, depending on which poles are facing | Compare and group together everyday materials on the basis of their properties, including their response to magnets (materials). | |





| | EYFS | | | | | | | K53 | |
|---------|---------|-----------|--------|--------|--------------------|--------|--------|--------------------|----------------|
| Physics | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Light | | | | | Recognise | | | Recognise that | Types of |
| | | | | | that they | | | light appears to | energy. |
| | | | | | need light in | | | travel in straight | |
| | | | | | order to see | | | lines. | Light, |
| | | | | | things and | | | | reflection and |
| | | | | | that dark is | | | Use the idea | refraction. |
| | | | | | the absence | | | | |
| | | | | | of light. | | | that light travels | |
| | | | | | | | | in straight lines | |
| | | | | | Notice that | | | to explain that | |
| | | | | | | | | objects are seen | |
| | | | | | light is reflected | | | because they | |
| | | | | | from | | | give out or | |
| | | | | | surfaces. | | | reflect light into | |
| | | | | | surfaces. | | | the eye. | |
| | | | | | Recognise | | | Explain that we | |
| | | | | | that light | | | see things | |
| | | | | | from the sun | | | because light | |
| | | | | | can be | | | travels from | |
| | | | | | dangerous and | | | light sources to | |
| | | | | | that there | | | our eyes or from | |
| | | | | | are ways to | | | light sources to | |
| | | | | | protect their | | | objects and then | |
| | | | | | eyes. | | | to our eyes. | |
| | | | | | , | | | , | |
| | | | | | | | | | |





| Use the idea |
|--------------------|
| that light travels |
| in straight lines |
| to explain why |
| shadows have |
| the same shape |
| as the objects |
| that cast them. |
| |
| |
| |
| |
| |
| |
| |
| |
| |





| | EYFS | | <u>K51</u> | | <u>K52</u> | | | | <u>KS3</u> |
|---------|---------|-----------|-------------------|--------|------------|--------|---------------------|--------|---------------|
| Physics | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Earth | | | Observe changes | | | | Describe the | | The solar |
| and | | | across the four | | | | movement of the | | system; stars |
| Space | | | seasons (seasonal | | | | Earth and other | | and the moon. |
| | | | changes). | | | | planets relative to | | |
| | | | | | | | the sun in the | | |
| | | | Observe and | | | | solar system. | | |
| | | | describe weather | | | | | | |
| | | | associated with | | | | Describe the | | |
| | | | the seasons and | | | | movement of the | | |
| | | | how day length | | | | moon relative to | | |
| | | | varies (seasonal | | | | the Earth. | | |
| | | | changes). | | | | | | |
| | | | | | | | Describe the sun, | | |
| | | | | | | | Earth and moon as | | |
| | | | | | | | approximately | | |
| | | | | | | | spherical bodies. | | |
| | | | | | | | | | |
| | | | | | | | Use the idea of | | |
| | | | | | | | the Earth's | | |
| | | | | | | | rotation to explain | | |
| | | | | | | | day and night and | | |
| | | | | | | | the apparent | | |
| | | | | | | | movement of the | | |
| | | | | | | | sun across the sky. | | |





| | <u>EYFS</u> <u>KS1</u> <u>KS2</u> | | | | | | | | <u>KS3</u> | |
|-------------|-----------------------------------|-----------|--------|--------|--------|--|--|--|---------------------------------------|--|
| Physics | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | |
| Electricity | | | | | | 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.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. | Compare and group together everyday materials on the basis of their properties, including their electrical conductivity (properties and changes of materials). | Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. 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. | Types of energy. Static charge. | |





| | | | Recognise that a | Use | |
|--|--|--|----------------------|--------------|--|
| | | | switch opens and | recognised | |
| | | | closes a circuit | symbols when | |
| | | | and associate this | representing | |
| | | | with whether or | a simple | |
| | | | not a lamp lights in | circuit in a | |
| | | | a simple series | diagram. | |
| | | | circuit. | | |
| | | | | | |
| | | | Decenize come | | |
| | | | Recognise some | | |
| | | | common | | |
| | | | conductors and | | |
| | | | insulators, and | | |
| | | | associate metals | | |
| | | | with being good | | |
| | | | conductors. | | |
| | | | | | |





| | EYFS | | <u>KS1</u> | | <u>K52</u> | | <u>KS3</u> | | |
|-----------|---------|-----------|---|---|---|--------|------------|--|--------|
| Chemistry | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 |
| Rocks | | | Identify and name a variety of everyday materials, including rock (materials). Describe the simple physical properties of a variety of everyday materials, including rock (materials). | Identify and compare the suitability of a variety of everyday materials, including rock, for particular uses (materials). | Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in simple terms how fossils are formed when things that have lived are trapped within rock. | | | Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago (evolution and inheritance). | |
| | | | | | Recognise that soils are made from rocks and organic matter. | | | | |





| EYFS | | <u>KS1</u> | | <u>K52</u> | | <u>K53</u> | | |
|--|---|---|---|--|---|---|---|--|
| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 🐺 |
| Use all their senses in hands- on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about the differences between materials and changes they notice. | Understand some important processes and changes in the natural world around them, including changing states of matter (ELG). | Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. Compare and group together a | Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. | | Compare and group materials together, according to whether they are solids, liquids or gases (states of matter). 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) (states of matter). | 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. Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from | | Atomic structure and use of periodic table. Separation techniques. Acid's, alkali's and neutralisation. |
| Lsoom lcmsdp Tdbma | Jursery Jse all their enses in hands- n exploration f natural materials. Explore ollections of materials with imilar and/or lifferent roperties. Talk about the lifferences naterials nd changes | JurseryReceptionJse all theirUnderstand someenses in hands-importantn explorationprocesses andf naturalchanges in thenaterials.natural worldaround them,includingollections ofchanging statesof matter (ELG).of matter (ELG).Talk about thelifferencesetweennaterialsnaterialsnaterials | JurseryReceptionYear 1Jse all their enses in hands- n exploration f natural materials.Understand some important processes and changes in the natural world around them, including changing states of matter (ELG).Distinguish between an object and the material from which it is made.Explore ollections of naterials with imilar and/or lifferent roperties.Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Talk about the lifferences etween haterials nd changes hey notice.Describe the simple physical properties of a variety of everyday materials. | JurseryReceptionYear 1Year 2Jse all their enses in hands- n exploration f natural materials.Understand some important processes and changes in the natural world around them, including changing states of matter (ELG).Distinguish between an object and the material from which it is made.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and naterials, including wood, plastic, glass, metal, water, and rock.Identify and naterials, including wood, plastic, glass, metal, water, and rock.Identify and naterials, including wood, plastic, glass, metal, water, and rock.Talk about the ifferences etween haterials nd changes hey notice.Describe the simple physical properties of a variety of everyday materials.Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. | JurseryReceptionYear 1Year 2Year 3Jse all their enses in hands- n exploration f natural materials.Understand some important processes and changes in the natural world around them, including changing states of matter (ELG).Distinguish between an object and the material from which it is made.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and natural wood, materials, including wood, plastic, glass, metal, water, and rock.Identify and naterials, including wood, plastic, glass, metal, water, and rock.Find out how the shapes of solid objects made from some materials can be changed by squashing, beanding, twisting and stretching. | JurseryReceptionYear 1Year 2Year 3Year 4Jse all their enses in hands- n exploration f natural vaterials.Understand some important processes and changes in the natural world around them, including changing states of matter (ELG).Distinguish between an object and the material from which it is made.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and roperties.Compare and group materials together, according to whether they are solids, liquids or gases (states of materials, including wood, plastic, glass, metal, water, and rock.Vear 2Year 3Vear 4Se all their in autoral world ollections of infferent roperties.Understand some of matter (ELG).Distinguish between naterials, including wood, plastic, glass, metal, water, and rock.Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.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) (states of matter). | JurseryReceptionYear 1Year 2Year 3Year 4Year 5Jse all their enses in hands- n exploration f natural aaterials.Understand some important processes and changes in the natural world are solids changing states of matter (ELG).Distinguish between an object and the materials, including clearing are variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Compare and group together according to whether they are solids, liquids or gases (states of matter).Vear 3Vear 4Vear 5Went 1Understand some between an aterials with winidar and/or ifferent roperties.Understand some aterials, including wood, plastic, glass, metal, water, and rock.Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and compare and group togetherCompare and group together are solids, uncluding wood, particular uses.Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Clesius group together aVear 4Year 4Year 5Vear 2Vear 3Vear 4Vear 4Vear 5Compare and group togetherCompare and group togetherCompare and group togetherCompare and group togetherCompare and group togetherVear 4 <td< td=""><td>AurseryReceptionYear 1Year 2Year 3Year 4Year 5Year 6Jes all their enses in hands- n exploration f natural atterials.Understand some important processes and changes in the naterials.Distinguish between an object and the materials from tincluding changing states of matter (ELG).Identify and naterials, including wood, materials, including wood, materials, including wood, materials, including wood, plastic, glass, metal, water, and rock.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Vear 4Year 5Year 6Vear 5Vear 6Compare and group together everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Compare and group together according to whethen they including wood, plastic, glass, metal, water, and rock.Identify and nametrials, including wood, plastic, glass, metal, water, and rock.Compare and group together according to whethen they the shapes of solid objects made from some materials.Vear 4Year 4Year 5Year 6Vear 5Vear 6Identify and compare the sincluding wood, plastic, glass, metal, water, and rock.Identify and their properties of a waterials made from some materials.Compare and compare the some materials the basis of their the materials.Compare and compare the<br <="" td=""/></td></td<> | AurseryReceptionYear 1Year 2Year 3Year 4Year 5Year 6Jes all their enses in hands- n exploration f natural atterials.Understand some important processes and changes in the naterials.Distinguish between an object and the materials from tincluding changing states of matter (ELG).Identify and naterials, including wood, materials, including wood, materials, including wood, materials, including wood, plastic, glass, metal, water, and rock.Identify and compare the suitability of a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Vear 4Year 5Year 6Vear 5Vear 6Compare and group together everyday materials, including wood, plastic, glass, metal, water, and rock.Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.Compare and group together according to whethen they including wood, plastic, glass, metal, water, and rock.Identify and nametrials, including wood, plastic, glass, metal, water, and rock.Compare and group together according to whethen they the shapes of solid objects made from some materials.Vear 4Year 4Year 5Year 6Vear 5Vear 6Identify and compare the sincluding wood, plastic, glass, metal, water, and rock.Identify and their properties of a waterials made from some materials.Compare and compare the some materials the basis of their the materials.Compare and compare the |





| | everyday materials on the basis of their simple physical properties. | Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature (States of matter). | Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. | |
|--|--|---|--|--|
| | | | Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. | |
| | | | Demonstrate that dissolving, mixing and | |





| | | | | ogene |
|--|--|--|-----------------|-------|
| | | | changes of | |
| | | | state are | |
| | | | reversible | |
| | | | changes. | |
| | | | | |
| | | | 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. | |
| | | | e, seaa. | |





| | EYFS | | <u>K51</u> | <u>K52</u> | | <u>K53</u> |
|---------------------------|---|---|---|--|--|---|
| | Nursery | Reception | Year 1 & Year 2 | Year 3 & Year 4 | Year 5 & Year 6 | Year 7 |
| Working Scientifically | Talk about what they see, using a wide vocabulary.Explore how things work.Be able to express | Describe what they see, hear and feel whilst outside. Ask questions to find out more and to check they understand what has been said to them (communication and language). Articulate their ideas and thoughts in well- formed sentences (communication and language). Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen | Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment. Performing simple tests. Identifying and classifying. Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions | Asking relevant questions and using different types of scientific enquiries to answer them. Setting up simple practical enquiries, comparative and fair tests. Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. | Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.Using test results to make predictions to set up | An introduction into the use of laboratory equipment and rules and basic science skills. |





| | | | - wyen- |
|----------------------------------|---|--|---------|
| (communication and language). | Recording findings using simple scientific language, drawings, labelled diagrams, | further comparative and fair tests. | |
| | keys, bar charts, and tables. | Reporting and presenting findings from enquiries, including conclusions, | |
| | Reporting on findings from enquiries, including oral and | causal relationships and explanations of and a | |
| | written explanations, | degree of trust in results, | |
| | displays or presentations of results and conclusions. | in oral and written forms such as displays and other presentations. | |
| | Using results to draw simple conclusions, make predictions for new values, | Identifying scientific evidence that has been | |
| | suggest improvements and raise further questions. | used to support or refute ideas or arguments. | |
| | Identifying differences, similarities or changes related to simple scientific ideas and processes. | | |
| | Using straightforward scientific evidence to answer questions or to support their findings. | | |
| | | | |