| | Working Scientifically 1. I can as | k simple questions and recognise that the | y can be answered in different ways. | |
|---|--|---|---|--|
| | : Engage safely in practical investigatio | | | ement. |
| Working Scientifically | Plants around us | Ourselves and other | Everyday Materials | Seasons |
| | (Plants) | Animals (Animals) | (Everyday Materials) | (Seasonal Changes) |
| I can observe closely, using simple equipment. I can perform simple tests. I can identify and classify. | I can identify and name a variety of common plants, including garden plants, wild plants and trees, and those classified as deciduous and evergreen. | common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates. | the materials from which it is made. 2. I can compare and group together a variety of everyday materials on the basis of their simple physical properties. | 1. I can observe changes across the four seasons. |
| | | | | |
| Working Scientifically | Plants around us | Ourselves and other | Everyday Materials | Seasons |
| | (Plants) | Animals (Animals) | (Everyday Materials) | (Seasonal Changes) |
| suggest answers to questions. | 1. I can identify and describe the basic structure of a variety of common flowering plants, including roots, stem/trunk, leaves and flowers. | of a variety of common animals. | | 1. I can observe and describe weather associated with the seasons and how day length varies. |

| | Science & En | vironmental Learning Learner Pr | ofile (Year 2) | | | | |
|---|---|---|---|---|--|--|--|
| Generate Ideas & Predict (GIP): Observe and explore to generate ideas, define problems and pose questions in order to develop investigations and products. | | | | | | | |
| | Working Scientifically 1. I can as | k simple questions and recognise that the | ey can be answered in different ways. | | | | |
| Investigate, Observe & Record (IOR) Working Scientifically |): Engage safely in practical investigatio Green Fingers | ns and experiments and gather and rec Be Healthy | ord evidence by observation and measu Squashing, bending, twisting & | rement. Living Things Around Us | | | |
| , | (Plants) | (Animāis) | stretching (Uses of Everyday Materials) | (Living Things & Habitats) | | | |
| I can observe closely, using simple equipment. I can perform simple tests. I can identify and classify. | I can observe and describe how seeds and bulbs grow into mature plants. I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy | humans, have offspring which grow into adults. | variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard. 2. I can find out how the shapes of solid objects can be changed by squashing, twisting, bending and stretching. | 1. I can explore and compare the difference between things that are living, dead, an things that have never been alive. | | | |
| | Explain (E): Communicate and mo | del in order to explain and develop idea | is, share findings and conclusions. | | | | |
| Working Scientifically | Green Fingers | Be Healthy | Living Things Around Us | | | | |
| | (Plants) | (Animals) | (Living Thing | s & Habitats) | | | |
| I can use observations and ideas to suggest answers to questions. I can gather and record data to help in answering questions. | bulbs grow into mature plants. | basic needs of animals, including humans, for survival. | r describe how different habitats provide for the basic needs of different kinds of ani and plants, and how they depend on each other. r 2. I can identify and name a variety of plants and animals in their habitats, including mit habitats. | | | | |

| | | | arning Learner Profile (Yeo | - | |
|--|--|--|--|--|--|
| Gener | | | | order to develop investigations and prod | ucts. |
| | | | d use different types of scientific | | |
| Investige | ate, Observe & Record (IOR): | Engage safely in practical investigat | ions and experiments and gather and re | cord evidence by observation and measu | rement. |
| Working Scientifically | Flowering Plants (Plants) | Skull & Crossbones (Animals) | Rock Hard! (Rocks) | Shadow Puppets (Light) | May the Force be with you (Forces Magnets) |
| I can set up simple practical enquiries, comparative and fair tests. I can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. I can gather, record, classify and present data in a variety of ways to help answer questions. I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables | I can 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. I can investigate the way in which water is transported within plants. I can explore the part that flowers play in the lifecycle of flowering plants, including pollination, seed formation and seed dispersal. | 1. I can identify that humans and some animals have skeletons and muscles for support, protection and movement. | I can compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. I can recognise that soils are made from rocks and organic matter. | | I can notice that some forces nee contact between two objects, but magnet forces can act at a distance. I can observe how magnets attract of repel each other and attract som materials and not others. I can compare and group together variety of everyday materials on the bas of whether they are attracted to a magne and identify some magnetic materials. I can compare how things move of different surfaces. |
| | Explain (E): Communi | icate and model in order to exp | olain and develop ideas, share fir | ndings and conclusions. | |
| I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. | functions of different parts of | 1. I can 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. | 1. I can describe in simple terms how fossils are formed when things that have lived are trapped within rock. | 1.I can associate shadows with a light source being blocked by something opaque. 2.I can recognise that light from the sun can be dangerous and that there are ways to protect their eyes. 3.I can recognise that I need light in order to see things and that darkness is the absence of light. | 1. I can describe magnets as having tv poles. |
| Evalu | uate (EV): To continually make sy | ystematic evaluations when design | ning and making, to bring about imp | provements in processes and outcom | 25. |
| | or changes related to simple scientific ideas a nce to answer questions or to support findings | | | | |

| Gener | | | arning Learner Profile (Yea define problems and pose questions in a | Ir 4) Order to develop investigations and produced to the product of th | ucts. |
|--|---|---|--|--|--|
| | | · · · · · · | d use different types of scientific | | |
| Investig | ate, Observe & Record (IOR): | Engage safely in practical investigat | ions and experiments and gather and re | cord evidence by observation and measu | rement. |
| Working Scientifically | Survival of the Fittest (All Living Things) | Chew Your Food (Animals) | States of Matter (States of Matter) | Making Music (Sound) | Pass it on (Electricity) |
| I can set up simple practical enquiries, comparative and fair tests. I can make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. I can gather, record, classify and present data in a variety of ways to help answer questions. I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables | I can explore and use classification keys to help group, identify and name a variety of living things. I can recognise that environments can change and that this can sometimes pose dangers to living things. | 1. I can identify the different types of teeth in humans and their simple functions. | 1. I can compare and group materials | | I can construct a simple series circuit identifying and naming its basic parts including cells, wires, bulbs, switches an buzzers. I can identify whether or not a lamp wilight in a simple series circuit, based o whether or not the lamp is part of complete loop with the battery. I can recognise some common conductor and insulators, and associate metals wit being good conductors. |
| | Explain (E): Communi | icate and model in order to exp | blain and develop ideas, share fir | ndings and conclusions. | |
| . I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. . I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. | 1. I can recognise that living things can be grouped in a variety of ways. | I can describe the simple functions of the basic parts of the digestive system in humans. I can construct and interpret a variety of food chains, identifying producers, predators and prey. | | I can recognise that sounds get fainter as the distance from the sound source increases. | I can identify common appliances the run on electricity. I can recognise that a switch opens an closes a circuit and associate this wit whether or not a lamp lights in a simpli series circuit. |
| Eval u 1. I can identifying differences, similarit | | | ning and making, to bring about imp | provements in processes and outcome | 25. |
| I can use straightforward scientific ev | | · | | | |

| enquints, including conclusions, could depend on the ord depend of the start in results, in real and depend of the start in results, in real and writter forms such as displays and other presentations. 2. I can describe the life process of reproduction in some plants and number of the form minimal of the result. 3. I can describe the life process of reproduction in some plants and number of the form minimal of the result. 3. I can describe the life process of reproduction in some plants and number of the form minimal of the result. 3. I can describe the movement of the form minimal of the result. The form the form form the result in the solid construction will be writing and there are not exclude used of writing and the representations. 4. I can understand that some materials, and i disave in liquid to form a solitant, and describe how to recover a substance from solution. | | | Science & Environmental L | earning Learner Profile (Year 5) | | |
|---|--|---|--|---|---|--|
| Working Scientificatly Charging Stratts (Properties & Instruction of a control of a contro contro a control of a control of a contro control of a c | | Generate Ideas & Predict (GIP) : Obse | erve and explore to generate ideas, d | efine problems and pose questions in order to | develop investigations and products. | |
| Working Scientifically Charging States (Properties 4 national) Resistance (Proces) 1.1 con take measurements, using or nong of a reader, is an equipport, using scient reading wave appropriate. 1.1 con take leveladge of salide, level and gases to doubt for monormal night of addings and or port of a measure and read of a famoching complexity using scientific diagrams and leads. 1.1 can easibe reader that and read to a famoching complexity using scientific diagrams and leads. 1.1 can easibe reader that and read to a famoching complexity using scientific diagrams and leads. 1.1 can easibe reader that and read to a famoching complexity. 1.1 can easibe reader that and read to a famoching complexity and gases to doubt for how (information). 1.1 can easibe reader that an easibe reader that an easibe reader that an easible reader reader that an easible reader that an easible reader | | Working Scientifically 1. I can plan di | fferent types of scientific enquiries t | o answer questions, including recognising and | controlling variables where necessary. | |
| 1. I on take measurement, using a range of scientific explanent, with increasing second of precision, taking repart registion, taking repart | | Investigate, Observe & Record (IOR): E | ingage safely in practical investigation | s and experiments and gather and record evid | dence by observation and measurement. | |
| and precisits, taking repart register using submit degraphics. As is sparster is including through filtering, seeing adsognation. Between pressure is and pressure is an experiment including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing adsognation. Between pressure is a sparster is including through filtering, seeing additional sparse additional sparse additional sparse additional sparse is a sparster is including through filtering seeing additional sparse addition | Working So | cientifically | Changing State | es (Properties & materials) | Resista | nce (Forces) |
| classification keys, tables, scatter graphs, bin and ling rights comportive and right tests, finctulating team handless, solubility, transporter, classification keys, tables, solubility, transporter, classification, cl | | | | | | tance, water resistance and friction, that act |
| I. I. con report and present findings from enquiries, including conclusions, oasses of that in results, in oral and written form such as displays and there present thous. I. I. can describe the differences in the life cycle of a mannual, an amphibian, such as displays and there present thous. I. I. can describe the differences in the instance of the present thous and built. I. I. can describe the differences in the and built. I. I. can describe the differences in the such as displays and there present thous. I. I. can describe the inform on comparative and fair tests, for the such as displays and there present thous. I. I. can describe the inform on addition in some plants and indices. I. I. can describe the movement of the such as displays and there present the fair. I. I. can describe the fair. I. I. can describe the sun, fair that unsupported as previous activity and changes of state are reversible, including changes association. I. I. can describe the movement of the such as displays and there present the fair. I. I. can describe the fair. I. I. can describe the life opecaes of such as displays and there present thous and describe the life opecaes of the formation in some plants and preversible, including changes association, and will disable in liquid to form a solution, and solution. I. I. can describe the sun, fair and disc. I. I. can describe the sun, fair and disc. I. I. can describe the fair. I. I. can describe the | classification keys, tables, scatter graphs, bar | and line graphs. | comparative and fair tests, inclu | uding their hardness, solubility, transparency | | ns including levers, pulleys and gears allow a |
| 1.1 con report ond present findings form such as displays and other presentations. 1.1 con describe the differences in the iffe cycle of a mammal, an amphibian, an exert and bid. 1.1 con describe the differences in the iffe cycle of a mammal, an amphibian, an exert and bid. 1.1 con describe the differences in the iffe cycle of a mammal, an amphibian, an exert and bid. 1.1 con describe the iffe process of reproduction in some plants and ammals. 1.1 con describe the iffe process of reproduction in some plants and ammals. 1.1 con describe the iffe process of reproduction in some plants and ammals. 1.1 con describe the iffe process of reproduction in some plants and ammals. 1.1 con describe the iffe process of reproduction in some plants and ammals. 1.1 con describe the some normal of the interplant of the process reproduction in some plants and at interplant of the comparison of the ammals. 1.1 con describe the some normal of the interplant of the process reproduction in some plants and at its kind of change is not usually reversels. 1.1 con describe the some changes result in this kind of change is not usually reversels. 1.1 con describe the some changes result in this kind of change is not usually reversels. 1.1 con describe the some changes result in the idea of the Earth's crothing at its plant day and nght. 1.1 con describe the some changes result in the idea of the Earth's crothing at its plant day and nght. 1.1 con describe the some changes result in the idea of the Earth's crothing at its plant day and nght. 1.1 con describe the some change result is condence the some | Working Scientifically | Life Cycles | Growing up | Changing States | Space Explorers | Resistance |
| enquines, including conclusions, causal in results, in rad and written forms such as displays and other presentations. 1. can describe the life process of reproduction in some plants and and models. 1. can describe the life process of reproduction in some plants and and models. 1. can describe the life process of reproduction in some plants and and models. 1. can describe the life process of reproduction in some plants and and models. 1. can describe the life process of reproduction in some plants and and models. 1. can describe the life process of reproduction in some plants and and some plants and | | (All Living Things) | (Animals) | (Properties & Materials) | (Earth & Space) | (Forces) |
| | enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms | life cycle of a mammal, an amphibian, an de insect and a bird. 2. I can describe the life process of reproduction in some plants and | | from comparative and fair tests, for the particular uses of everyday materials. 2. I can demonstrate that dissolving, mixing and changes of state are reversible changes. 3. I can 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. 4. I can understand that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from | Earth, and other planets, relative to the sun in the solar system. 2. I can describe the movement of the Moon relative to the Earth. 3. I can describe the Sun, Earth and Moon as approximately spherical bodies. 4. I can use the idea of the Earth's rotation | 1. I can explain that unsupported objects fall towards Earth because of the force of gravity acting between the Earth and the falling object. |
| Evaluate (EV): To continually make systematic evaluations when designing and making, to bring about improvements in processes and outcomes. | | Evaluate (EV): To continually r | nake systematic evaluations when desi | igning and making, to bring about improvement | s in processes and outcomes. | |
| Working Scientifically: 1. I can identifying scientific evidence that has been used to support or refute ideas or arguments. | | Working Scientific | cally: 1. I can identifying scientific evide | ence that has been used to support or refute ide | eas or arguments. | |

| Gener | are rueus a rredict (orr). Ob | serve and explore to generate Ideas, | define problems and pose question | ns in order to develop investigations and products. | |
|---|--|--|--|--|---|
| Wor | king Scientifically 1. I can plan diffe | rent types of scientific enquiries to | answer questions, including recogn | ising and controlling variables where necessary. | |
| Investigat | e, Observe & Record (IOR): Engag | e safely in practical investigations | and experiments and gather and | record evidence by observation and measureme | nt. |
| Working Scientifically | Fitting In | Looking After Yourself | Evolution | Shadow Play | Changing Circuits |
| | (All Living Things) | (Animals) | (Evolution & Inheritance) | (Light) | (Electricity) |
| I. I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. 2. I can record data and results of increasing complexity using scientific diagrams and abels, classification keys, tables, scatter graphs, bar and line graphs. 3. I can use test results to make predictions to set up further comparative and fair tests. | I can 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. I can give reasons for classifying plants and animals based on specific characteristics. | 1. I can recognise the impact of diet, exercise, drugs and lifestyle on the way our bodies function. | I can recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. I can recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. | | I can use recognised symbols when representing a simple circuit in a diagram. I can compare and give reasons for variations in how components function, including the brightness of bulbs, loudness of buzzers and on/off positions of switches. |
| | Explain (E): Com | municate and model in order to exp | blain and develop ideas, share fir | ndings and conclusions. | |
| I can report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. | | I can identify and name the main parts of the human circulatory system, and explain the functions of the heart, blood vessels and blood. I can describe the ways in which nutrients and water are transported within animals, including humans. | 1. I can identify how plants and animals are adapted to suit their environment in different ways and that adaptation may lead to evolution | I can recognise that light travels in straight lines. I can 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. I can explain that we see things because light travels from a light source to our eyes or from light sources to objects and then to our eyes. I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. | I can explain how the number of voltage of cells affects bulbs, buzzers or motors in a circuit. |
| I can identify scientific evidence that | Evaluate (EV): To continually ma has been used to support or refute ideas o | | ning and making, to bring about imp | provements in processes and outcomes. | |