

Cledford Primary School – Science Curriculum Yearly Overview



| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---|---|---|---|--|--|--|
| EYFS Continuous provision providing exploratory and investigative opportunities | Animals including humans Talk about members of their immediate family and community. Name and describe people who are familiar to them. Specific topics: Healthy body, Healthy Me | Structures and materials Seasonal Changes Specific topics: festivals and celebrations | Living things and their habitats Draw information from a simple map. Seasonal changes Understand the effect of changing seasons on the natural world around them. Specific topic – Spring and new life | Living things and their habitats Recognise some environments that are different from the one in which they live. Specific topic – Travel and transport (link to seasons – wellies and different footwear) | Seasonal changes/materials/Light/forces/sound/ earth and space Describe what they see, feel and hear while outside Explore the natural world around them Specific topics – Plants and growth 'How does your garden grow' | Living things and their habitats Specific topics — Animals and their habitats |
| Everyday EYFS science | Daily Dashboard: weather, seasons Environment: access to different m | and months of the year aterials throughout the day (support ora | acy and vocabulary building) | | | |
| Year 1 | The Human Body and Senses Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense TAPS Body parts (using observations) | Seasonal changes — ongoing throughout the year Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies TAPS Seasonal change — ongoing (observe over time record data) | Animals Identify and name common animals including fish, amphibians, mammals, birds and reptiles (as well as carnivores, omnivores and herbivores) Compare structure of common animals (including pets) TAPS Animal classification (identify and classify) | Everyday Materials Distinguish between object and the material from which it's made Identify and name a variety of everyday materials and their simple physical properties Compare and group together everyday materials TAPS: Floating and sinking (plan simple tests to compare and group) Reflectiveness (answering questions) Transparency (answering questions) Seasonal changes — ongoing throughout the year Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies | Plants – term topic Identify and name a variety of common wild and garden plants Identify and describe the basic structure of flowering plants (seed planting best between late March and late May) TAPS Leaf looking (observing closely) Educational Visit Link: RHS Garden Brigewater | Plants – term topic Identify and name a variety of common wild and garden plants Identify and describe the basic structure of flowering plants Seasonal changes – ongoing throughout the year Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies TAPS Plant structure (observe closely over time using simple equipment) |
| Year 2 | Animals including humans: diet, exercise and hygiene Describe the importance for humans to exercise, eat the right amount of different types of food and hygiene. TAPS Compare handspans (using observations to answer questions) Plants – ongoing throughout the year Planting bulbs (mini daffodils)/wild flower seeds ready for spring plants topic (before October half term) – planters outside LW's classroom to Y2 classroom | Animals include humans: offspring and lifecycles Notice that all animals, including humans have offspring which grow into adults Find out about basic needs of animals including humans for survival | Everyday Materials Identify and compare the suitability of a variety of everyday materials Find out how the shapes of some everyday materials can be changed by squashing, bending, twisting and stretching TAPS Materials hunt (gather and record data) Waterproof materials (ask and answer simple questions) Rocket mice (simple testing to answer questions) | Plants Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants stay healthy TAPS Compare plant growth (observe closely using simple equipment) | Living things and their habitats Compare differences between living, dead and never been alive Living things' habitats are suited to them TAPS Nature spotters (identifying and classifying) Sorting living and non-living (idenfiying and classifying) | Living things and their habitats Identify and name a variety of plants and animals in habitats including microhabitats Simple food chains TAPS Feeding simulation (observe closely) Woodlice Habitat (gather and record data) Educational Visit link: Lion Saltworks |



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| | Rocks | Forces and Magnets | Forces and Magnets | Light | Plants | Animals including humans |
|--------|--------------------------------------|---|--|--|---|---|
| | Compare and group together | Compare how things move on different | Observe how magnets can attract | Recogise that they need light to see | Identify and describe functions of | Identify that animals, including |
| | different kinds of rocks | surfaces | and repel each other and attract | things and dark is the absence of light | different parts of a plant | humans, need the right types and |
| | Describe how fossils are formed | Notice that some forces need contact | some materials but not others | Light is reflected from surfaces | Explore requirements for plants to | amounts of nutrition and that they |
| | Recognise that soils are made from | between two objects | Compare and group together | Light from the sun is dangerous shadows | survive and how these differ from | cannot make their own food |
| | rock and organic matter | Notice that magnetic forces can act at a | everyday materials based on | are formed when light source is blocked | plant to plant | Identify that humans and some other |
| | 9 | distance | whether they are attracted to | by an opaque object | Investigate how water is transported | animals have a skeleton and muscles |
| | TAPS | | magnets | Find patterns in how shadows change | in plants | for support, protection and |
| | Reporting on rocks (reporting on | TAPS | Describe magnets as having two | | Plant life cycle: seed dispersal, | movement |
| £ 7 | finding from enquiries) | Shoe grip (set up simple enquiries) | poles | TAPS | pollination and seed formation | |
| Year 3 | , | Balloon rockets (drawing simple | | Can everything make a shadow? (gather | i e | |
| | | conclusions) | TAPS | and record data to answer questions) | TAPS | |
| | | Car ramps (gather, record and present | What is the strongest magnet? (set | , | Close observation of plants (systematic | |
| | | data with bar charts) | up simple fair and comparative | | and careful observations) | |
| | | , | tests) | | Function of a plant stem (using | |
| | | | , | | scientific evidence to answer | |
| | | | | | questions) | |
| | | | | | How much water do plants need? | |
| | | | | | (making systematic and careful | |
| | | | | | observations and measurements) | |
| | Sound | Electricity | States of matter | Animals inc humans – digestive system | Animals including humans – food | Living things and their habitats |
| | Identify how sounds are made, | Identify common appliances that run on | Compare and group materials | and teeth | chains | Recognise that living things can be |
| | associating some of them with | electricity. | together, according to whether they | Describe the simple functions of the | Construct and interpret a variety of | grouped in a variety of ways. |
| | something vibrating. | Construct a simple series electrical | are solids, liquids or gases. | basic parts of the digestive system in | food chains, identifying producers, | Explore and use classification keys to |
| | Recognise that vibrations from | circuit, identifying and naming its basic | Observe that some materials change | humans. | predators and prey. | help group, identify and name a |
| | sounds travel through a medium to | parts, including cells, wires, bulbs, | state when they are heated or | Identify the different types of teeth in | predators and prey. | variety of living things in their local |
| | the ear. | switches and buzzers. | cooled, and measure or research the | humans and their simple functions. | | and wider environment. |
| | Find patterns between the pitch of a | Identify whether or not a lamp will light | temperature at which this happens | ' | | Recognise that environments can |
| | sound and features of the object | in a simple series circuit, based on | in degrees Celsius (°C). | TAPS | | change and that this can sometimes |
| | that produced it. | whether or not the lamp is part of a | Identify the part played by | Teeth (eggs) in liquid (drawing | | pose dangers to living things. |
| 4 | Find patterns between the volume | complete loop with a battery. | evaporation and condensation in the | conclusions) | | |
| Year | of a sound and the strength of the | Recognise that a switch opens and closes | water cycle and associate the rate of | Correlations | | TAPS |
| ¥ | vibrations that produced it. | a circuit and associate this with whether | evaporation with temperature. | | | Local environment study (gather, |
| | Recognise that sounds get fainter as | or not a lamp lights in a simple series | | | | record and classify data) |
| | the distance from the sound source | circuit. | TAPS | | | , , |
| | increases. | Recognise some common conductors | Measuring temperatures (taking | | | |
| | | and insulators, and associate metals with | accurate measurements) | | | |
| | TAPS | being good conductors. | Drying materials (set up a fair test) | | | |
| | String telephones (identifying | | , 5 | | | |
| | similarities and differences in | TAPS | | | | |
| | scientific ideas) | Does it conduct electricity? (reporting | | | | |
| | Investigating pitch (asking and | findings – drawing conclusions) | | | | |
| | answering questions) | | | | | |
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| | Forces | Materials | Materials | Living things and their habitats | Space | Animals including humans |
|--------|--|---|---|--|--|---|
| | Explain that unsupported objects fall | | | Compare life cycles of a mammal, | Describe the movement of the Earth, | Describe the changes as humans |
| | 1 | Compare and group together everyday | Compare and group together | | , | 9 |
| Year 5 | towards Earth because of gravity | materials based on their properties | everyday materials based on their | amphibian, insect and bird | and other planets, relative to the sun | develop into old age |
| | Identify effects of air resistance, | Know that some materials dissolve in | properties | Describe life process of reproduction in | Describe the movement of the moon | TARC |
| | water resistance and friction | liquid and describe how to recover a | Know that some materials dissolve in | some plants and animals | relative to Earth | TAPS |
| | Recognise that some mechanisms, | substance from a solution | liquid and describe how to recover a | | Describe the sun, moon and Earth as | Growth Survey (take measurements) |
| | including levers, pulleys and gears | Use knowledge of solids, liquids and | substance from a solution | TAPS | approximately spherical bodies | |
| | allow a smaller force for a greater | gasses to separate mixtures | Use knowledge of solids, liquids and | Seed dispersal survey (record data and | Use the idea of the Earth's rotation to | RSE – PSHE Link |
| | effect | | gasses to separate mixtures | results with increasing complexity) | explain day and night | |
| ¥ | | TAPS | | Life cycle research (report findings from | | |
| | TAPS | Champion taps (Report and present | TAPS | enquiries) | TAPS | |
| | Spinners (measure taking repeated | findings from enquiries, including | Sugar stacks (gather and record data | | Craters (gather and record data using | |
| | readings) | conclusions and explanations of degree | in tables) | | tables and graphs) | |
| | Aquadynamics (explaining trust in | of trust in results) | Insulation layers (making predictions) | | Space research (scientific enquiries to | |
| | results) | Testing nappy absorbancy (plan with | Dissolving (plan scientific enquiry) | | answer questions) | |
| | | controlling variables) | | | | |
| | | | | | Educational Visit Link: Jodrell Bank | |
| | Elements. | L'ala | Autorial to a bronzenia atrondata or | 15 to salt on a sold about the ball Season | Autority to a leasure of the constant | Footballer and inheritance |
| | Electricity | Light | Animals inc humans – circulatory | Living things and their habitats | Animals inc humans – diet, exercise | Evolution and inheritance |
| | Associate the brightness of a lamp or | Recognise that light appears to travel in | system | Describe how living things are classified | and drugs | Recognise that living things have |
| | the volume of a buzzer with the | straight lines. | Identify and name the main parts of | into broad groups according to common | Recognise the impact of diet, exercise, | changed over time and that fossils |
| | number and voltage of cells used in | Use the idea that light travels in straight | the human circulatory system, and | observable characteristics and based on | drugs and lifestyle on the way their | provide information about living |
| | the circuit. | lines to explain that objects are seen | describe the functions of the heart, | similarities and differences, including | bodies function. | things that inhabited the Earth |
| | Compare and give reasons for | because they give out or reflect light into | blood vessels and blood. | microorganisms, plants and animals. | Describe the ways in which nutrients | millions of years ago. |
| | variations in how components | the eye. | | Give reasons for classifying plants and | and water are transported within | Recognise that living things produce |
| | function, including the brightness of | Explain that we see things because light | TAPS | animals based on specific characteristics. | animals, including humans. | offspring of the same kind, but |
| | bulbs, the loudness of buzzers and | travels from light sources to our eyes or | Heart rate poses (test results and | | | normally offspring vary and are not |
| 9 | the on/off position of switches. | from light sources to objects and then to | predictions – fair and comparative | TAPS | | identical to their parents. |
| Year 6 | Use recognised symbols when | our eyes. | testing) | Flower sampling (plan different types of | | Identify how animals and plants are |
| ¥ | representing a simple circuit in a | Use the idea that light travels in straight | | scientific enquiries) | | adapted to suit their environment in |
| | diagram. | lines to explain why shadows have the | | Outdoor keys (classification keys to | | different ways and that adaptation |
| | TARS | same shape as the objects that cast | | record results) | | may lead to evolution. |
| | TAPS | them. | | Invertebrate research (report and | | T400 |
| | Bulb brightness (plan scientific | TADS | | present findings) | | TAPS |
| | enquiry – variables) | TAPS Reining and corting light questions | | | | Fossil habitats (identifying scientific |
| | | Raising and sorting light questions | | | | evidence) |
| | | (identifying scientific enquiries) | | | | Egg strength (explain degree of trust |
| | | Investigating shadows (take accurate | | | | in results) |
| | | measurements and record data on | | | | |
| | | graph) | | British Science Week - March | Outdoor Classroom Day | |
| school | | | | DITUSTI Science Week - March | Outdoor Classroom Day | |
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| Whole | | | | | | |
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