Science Progression from EYFS to Year 6

## Year 2 - Living Things and Their Habitats

| National Curriculum Objectives/Knowledge Statements (Substantive):   | Key Ideas:             |
|--|------------------------|
| <ul> <li>Explore and compare the difference between things that are living, dead and things that have never been alive.</li> </ul>   | a) Some things are     |
| • 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             | once living but no     |
| they depend on each other.   | things never lived     |
| <ul> <li>Identify and name a variety of plants and animals in their habitats, including micro habitats.</li> </ul>   | b) There is variation  |
| • Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name the different sources of food.  | living things.         |
| Pupils should be introduced to the idea that all living things have certain characteristics that are essential for keeping them alive and healthy. They should raise and answer questions that help them   | c) Different animals   |
| to become familiar with the life processes that are common to all living things. Pupils should be introduced to the terms 'habitat' (a natural environment or home of a variety of plants and animals) and | in different place     |
| 'micro-habitat' (a very small habitat, for example for woodlice under stones, logs or leaf litter). They should raise and answer questions about the local environment that help them to identify and      | d) Living things are a |
| study a variety of plants and animals within their habitat and observe how living things depend on   | surviveindiffere       |
| each other, for example, plants serving as a source of food and shelter for animals. Pupils should compare animals in familiar habitats with animals found in less familiar habitats, for example, on the  | e) Environmental ch    |
| seashore, in woodland, in the ocean, in the rainforest.  | affect plants and      |
| Pupils might work scientifically by: sorting and classifying things according to whether they are living, dead or were never alive, and recording their findings using charts. They should describe how    | live there.            |
| they decided where to place things, exploring questions for example: 'Is a flame alive? Is a deciduous tree dead in winter?' and talk about ways of answering their questions. They could construct a      |                        |
| simple food chain that includes humans (e.g. grass, cow, human). They could describe the conditions in different habitats and micro-habitats (under log, on stony path, under bushes) and find out         |                        |

how the conditions affect the number and type(s) of plants and animals that live there. Breakdown of Lessons **Prior Learning** Knowledge (Progression of substantive knowledge - what?). Or Science Enquiry/Skill Based Lesson In Early Years: Lesson and Big Question (Disciplinary/National Curriculum Working Scientifically Statements - why/how?). These inc: Fair Testing (Asking Scientific Questions, Planning and Enguiry, Observing closely, Drawing Conclusions, Making Predictions, Evaluating an Enquiry), Identifying & Classifying, Observation Over Time (Observing closely), Pattern Seeking/Research. Li • Comments and questions ali Carl Linnaeus was a Swedish naturalist and explorer. He classified (grouped) all plants Classification-living, dead or never lived. about the place they live mi and animals and named them. or the natural world. fo He thinks all things can be classified as living, dead or never lived. What do you • Shows care and concern for lit think? living things and the se Chris Packham is a famous naturalist and he studies animals in their habitat. Chris wants Knowledge based- exploring habitats and the needs of individual animals. environment. wo to know more about why most living things live in habitats that suit them. • Can talk about things they ra Identify different habitats and name the plants and animals that live there. have observed such as plants со and animals. de Chris Packham is a famous naturalist and he studies animals in their habitats. Last week Knowledge- learn about animals and plants that live in a coastal habitat and how they are • Notices features of sh we taught Chris about different habitats and named the plants and animals that live suited to it. objects in their there. environment. This week Chris wants to know which animals live in microhabitats. Can you name • Comments and asks some? guestions about their George McGavin is a British Entomologist and Wildlife presenter. He studies insects in Scientific enquiry-minibeast hunt to observe microhabitats. familiar world. their habitats. He would like to know how different habitats provide for the basic needs of animals and plants. Can you tell him about this? Sir David Attenborough is a natural historian and he has studied animals all over the Knowledge- features of a food chain and understanding of producer, prey and predator. world in their natural habitats. He believes that animals get their food from plants and other animals. He thinks we can use food chains to show this. Do you agree? Assessment

| w dead and some<br>I.<br>h between<br>and plants live<br>is.<br>idapted to<br>nt habitats.<br>ange can<br>animals that<br>Vocabulary<br>Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>od chain, leaf<br>ter, shelter,<br>as shore,<br>bodland, ocean,<br>inforest,<br>onditions,<br>esert, damp, | living, some were<br>w dead and some<br>i,<br>between<br>and plants live<br>ss.<br>idapted to<br>nt habitats.<br>ange can<br>animals that<br>Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>vod chain, leaf<br>tter, shelter,<br>a shore,<br>oodland, ocean,<br>iinforest,<br>onditions,<br>essert, damp,<br>hade, |   |  |  |
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| and plants live<br>es.<br>adapted to<br>nt habitats.<br>ange can<br>animals that<br>Vocabulary<br>Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>ood chain, leaf<br>tter, shelter,<br>ea shore,<br>poolland, ocean,<br>iinforest,<br>onditions,<br>esert, damp,                                   | and plants live<br>es.<br>adapted to<br>nt habitats.<br>iange can<br>animals that<br>Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>bod chain, leaf<br>tter, shelter,<br>ea shore,<br>oodland, ocean,<br>ainforest,<br>onditions,<br>esert, damp,  | w dead and some<br>1.   |  |  |
| es.<br>adapted to<br>nt habitats.<br>ange can<br>animals that<br>Vocabulary<br>Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>od chain, leaf<br>tter, shelter,<br>ta shore,<br>podland, ocean,<br>iinforest,<br>onditions,<br>esert, damp,  | es.<br>adapted to<br>nt habitats.<br>ange can<br>animals that<br>Vocabulary<br>Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>bod chain, leaf<br>tter, shelter,<br>ea shore,<br>oodland, ocean,<br>ainforest,<br>onditions,<br>esert, damp,  | 1 between   |  |  |
| Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>od chain, leaf<br>tter, shelter,<br>sa shore,<br>podland, ocean,<br>iinforest,<br>onditions,<br>esert, damp,   | Vocabulary<br>ving, dead, never<br>ive, habitats,<br>icro-habitats, food,<br>bod chain, leaf<br>tter, shelter,<br>ea shore,<br>oodland, ocean,<br>hinforest,<br>oodland, ocean,<br>sesert, damp,   | es.<br>adapted to<br>nthabitats.<br>ange can  |  |  |
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## In Year 4:

- 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.
  Know and label the features of ariver
- Recognise that environments can change and that this can sometimes pose danger to living things.



### Science Progression from EYFS to Year 6

|  | Year 4 - Living Things and Their Habita   | ts  |  |
|--|---|---|--|
| <ul> <li>Explore and use classific</li> <li>Recognise that environm<br/>Sustainably').</li> <li>Pupils should use the local environment the<br/>habitat changes throughout the year. Pup<br/>begin to put vertebrate animals into grout</li> <li>Note: Plants can be grouped into categor</li> <li>Pupils should explore examples of human in<br/>the negative effects of population and de</li> <li>Pupils might work scientifically by: using a</li> </ul>   | Statements (Substantive):<br>ngs can be grouped in a variety of ways.<br>cation keys to help group, identify and name a variety of living things in their local ar<br>nents can change and that this can sometimes pose danger to living things (also links<br>roughout the year to raise and answer questions that help them to identify and study plants and animals in their<br>ils should explore possible ways of grouping a wide selection of living things that include animals and flowering plants<br>ps such as fish, amphibians, reptiles, birds, and mammals; and invertebrates into snails and slugs, worms, spider<br>ries such as flowering plants (including grasses) and non-flowering plants, such as ferns and mosses.<br>mpact (both positive and negative) on environments, for example, the positive effects of nature reserves, ecologie<br>evelopment, litter or deforestation.<br>and making simple guides or keys to explore and identify local plants and animals; making a guide to local living thing<br>thing thing<br>such as imple guides or keys to explore and identify local plants and animals; making a guide to local living thing<br>the such as flower in the such as the plants in the positive effects of nature reserves, ecologie<br>evelopment, litter or deforestation. | nd wider environment.<br>s with Geography 'Living<br>habitat. They should identify how the<br>ants and non-flowering plants. Pupils could<br>rs, and insects.<br>ically planned parks, or garden ponds, and   | <ul> <li>d) Different food chains occur in differ</li> <li>e) Human activity significantly affects the environment.</li> </ul>   |
|  | t they have found out about other animals that they have researched.  |   |  |
| <ul> <li>Prior Learning</li> <li>In Year 2:</li> <li>Explore and compare the difference<br/>betweenthings that are living, dead and<br/>things that have never been alive.</li> <li>Identify that most living things live in<br/>habitats to which they are suited and<br/>describe how different habitats provide<br/>for the basic needs of different kinds of<br/>animals and plants, and how they depend on<br/>each other.</li> <li>Identify and name a variety of plants and<br/>animals in their habitats, including micro<br/>habitats.</li> <li>Describe howanimals obtain their food<br/>from plants and other animals, using the<br/>idea of a simple food chain, and identify<br/>and name the different sources of food.</li> </ul> | Breakdown of L         Lesson and Big Question         Lesson 1 - What is a living thing?         Find out what it means to be living. Look at MRS GREN.         Big Question: Amber Kerr asks 'What makes something living?'         Lesson 2- Grouping Living things         Sort animals in a variety of different ways- the children coming up with their own criteria for grouping.         Big Question: Carl Linneaus believed that all living things could be sorted in a variety of different ways. Prove it.  | Knowledge (Progression of substantive<br>Lesson (Disciplinary/National Curriculu<br>These inc: Fair Testing (Asking Scienti<br>Drawing Conclusions, Making Prediction<br>Observation Over Time (Observing clos<br>Scientific Knowledge - Identify<br>will be able to say what the 7 pr<br>mean. They will know that in ord<br>must be present.<br>Scientific enquiry (Identifying and clas<br>will use terms such as mammal, amphibi<br>in these groups have in common with ec<br>They will sort living using criteria such<br>some living things can fit into more tha | the characteristics of living things. Children<br>processes of life are and explain what they<br>ler to be living- ALL characterises of life<br>ssifying)- find different ways of grouping animals. They<br>ian, reptile, birds, and fish and identify what the animals<br>ach other.<br>as habitat and characteristics and discuss whether<br>in one group.   |
|  | Lesson 3 - Grouping animals<br>Vertebrates and invertebrates - what does the term vertebrate/invertebrate mean? Car<br>animals be sorted using this criteria?<br>Big Question: Lamarck thought that all animals could be classified as either vertebrates<br>or invertebrates. Do you agree?<br>Lesson 4 - Classification Keys<br>Big Question: Charles Darwin asks ' can all organisms be classified by the features they have in<br>common? Answer his question by creating your own classification key.  | and be introduced to the terms verteb<br>that are invertebrates and vertebra<br>encountered e.g. Mammals, reptiles<br>amphibians and reptiles are all vertebra<br>Scientific Knowledge- Children will know<br>identify an animal.<br>Scientific enquiry (identifying and class<br>classification keys to help group and no  | classifying)Children will build on their knowledge so far<br>rate and invertebrate. They will sort animals into those<br>tes and relate this to the groups they have already<br>etc- They will understand that mammal, bird, fish,<br>ates. This will lead onto the sue of classification keys.<br>w what a classification key is and be able to use them to<br>sifying, asking scientific questions)- explore and use<br>ame a variety of living things. Children will then use this<br>cation key. They will consider what are appropriate<br>by a living thing. |

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#### Vocabulary

Environment, flowering, nonflowering, plants, animals, vertebrates, fish, amphibians, reptiles, mammals, invertebrate, human impact, nature reserves,

deforestation.

Science Progression from EYFS to Year 6

| Lesson 5 - Local habitats<br>Explore the local habitat- school playground and grounds and look for example of living<br>things.<br>David Attenborough<br>Big Question: How does habitat change over time? | Observation- Observe the wildlife in a local habitat. Compare this environment to a<br>contrasting environment. What difference would you see? How have the environments changed<br>over time? New houses being built etc how would this affect the environment/wildlife?   |
|---|---|
| Lesson 6 - Changing environments  | Scientific Enquiry - Research, Observation over time/ pattern seeking.<br>Link to climate change- how has the environment changed over time on a global scale? How  |
| Extend to thinking about environmental changes over longer periods of time.   | does global warming pose a danger to living things? What can we do to help change this?   |
| Big Question: How does habitat change over time?  |   |
| _   | Explore the local habitat- school playground and grounds and look for example of living<br>things.<br>David Attenborough<br>Big Question: How does habitat change over time?<br>Lesson 6 - Changing environments<br>Think about how the local habitat is different at different times of the year.<br>Extend to thinking about environmental changes over longer periods of time.<br>David Attenborough |

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.



|  | Year 5 - Living Things and The  | eir Habitats   |   |  |
|--|---|--|---|--|
| • Describe the life pro<br>Pupils should study and raise que<br>example, plants in the vegetable<br>behaviourists, for example, <u>Da</u><br>Pupils should find out about di<br>Pupils might work scientifically<br>world (in the rainforest, in the<br>They might try to grow new pla   | wedge Statements (Substantive):<br>ences in the life cycles of a mammal, an amphibian, an insect and a bird.<br>pocess of reproduction in some plants and animals.<br>Justions about their local environment throughout the year. They should observe life-cycle cl<br>le garden or flower border, and animals in the local environment. They should find out about the<br><u>vid Attenborough and Jane Goodall</u> .<br>fferent types of reproduction, including sexual and asexual reproduction in plants, and sex<br>by: observing and comparing the life cycles of plants and animals in their local environment w<br>oceans, in desert areas and in prehistoric times), asking pertinent questions and suggesting<br>ints from different parts of the parent plant, for example, seeds, stem and root cuttings, tu<br>(for example, by hatching and rearing chicks), comparing how different animals reproduce a | ne work of naturalists and animal<br>kual reproduction in animals.<br>with other plants and animals around the<br>reasons for similarities and differences.<br>bers, bulbs. They might observe changes in  | <ul> <li>Key Ideas:</li> <li>a) Some organisms reproduce sexual inherit information from both parts</li> <li>b) Some organisms reproduce asexual a single parent.</li> <li>c) Environmental change can affect h suited to its environment.</li> <li>d) Different types of organisms hav</li> </ul>  | rents.<br>ally by making a<br>how well an orga                                       |
| Prior Learning   |   | of Lessons   |   | Vocabi   |
| In Year 4:       Lesson and Big Question <ul> <li>Recognise that living things can be grouped in a variety of ways.</li> <li>Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.</li> <li>Know and label the features of a river</li> <li>Recognise that environments can change and that this can sometimes pose danger to living things.</li> </ul> Janaki Ammal was a famous botanist (a biologist who studies plants) of liver and wider environment. <li>Know and label the features of a river             <ul> <li>Recognise that environments can change and that this can sometimes pose danger to living things.</li> <li>Monica Turner was a famous ornithologist (a biologist who studies bin to know if birds reproduce in the same way as insects, and if birds ge metamorphosis - prove it.</li> </ul></li> | Carl Linnaeus was a famous botanist (a biologist who studies plants) from Sweden. He<br>dissected plants to learn about pollination. He would like to know what the inside of<br>plants look like and if plants reproduce sexually or asexually – prove it.<br>Janaki Ammal was a famous botanist (a biologist who studies plants) from India. She<br>dissected plants to learn about pollination. She would like to know if it is better for   | Lesson (Disciplinary/National Curriculum Wor<br>These inc: Fair Testing (Asking Scientific Que<br>Drawing Conclusions, Making Predictions, Evalu<br>Observation Over Time (Observing closely), Pa<br>Science Enquiry/Skill Based Lesson (Fair<br>using tables, scatter graphs, bar and line g<br>enquiries, including conclusions, causal rela<br>trust in results, in oral and written forms.<br>used to support or refute ideas or argume<br>Identifying scientific evidence that has be<br>arguments. Report and present findings f<br>relationships and explanations of and degr<br>forms. (Knowledge/Pattern Seeking/Resea<br>Identifying scientific evidence that has be | ttern Seeking/Research.<br>Testing/Observation Over Time). Record data<br>graphs. Report and present findings from<br>ationships and explanations of and degree of<br>. Identify scientific evidence that has been<br>ent.<br>een used to support or refute ideas or<br>from enquiries, including conclusions, causal<br>tree of trust in results, in oral and written<br>arch)<br>een used to support or refute ideas or<br>rom enquiries, including conclusions, causal | Environment,<br>flowering, non-<br>flowering, plants<br>animals,                     |
|  | Vladimir Balthasar was a Hungarian entomologist (a biologist who studies insects). He<br>would like to know if all insects go through metamorphosis - prove it.   | forms. (Knowledge/Pattern Seeking/Resect<br>Identifying scientific evidence that has be<br>arguments. Report and present findings f<br>relationships and explanations of and degr<br>forms. (Knowledge/Pattern Seeking/Resec   | een used to support or refute ideas or<br>rom enquiries, including conclusions, causal<br>ree of trust in results, in oral and written  | gestation, young<br>mammal,<br>metamorphosis,<br>amphibian, inse<br>egg, embryo, bin |
|  | Monica Turner was a famous ornithologist (a biologist who studies birds). She would like<br>to know if birds reproduce in the same way as insects, and if birds go through<br>metamorphosis - prove it.<br>Aristotle - as well as being a famous Ancient Greek philosopher - was also a   | Identifying scientific evidence that has be  | een used to support or refute ideas or<br>rom enquiries, including conclusions, causal<br>ree of trust in results, in oral and written<br>arch)   | plant.   |
|  | biologist. He would like you to compare the lifecycles of mammals, amphibians,<br>insects and birds. He thinks that there are both similarities and differences –<br>prove it.  | arguments. Report and present findings   | from enquiries, including conclusions, causal gree of trust in results, in oral and written   |  |

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## In Year 6:

- Classify living things into broad groups according to observable characteristics and based on similarities and differences.
- Give reasons for classifying plants and animals based on specific characteristics.
- Know how animals and plants are adapted to suit their environment.
  Know about reproduction and offspring (recognising offspring normally vary and are not identical to their parents).
  Know the ways in which nutrients and water are transported in animals, including humans



|  | Year 6 - Living Things   | and Their Habitat:  | S   |   |
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| <ul> <li>Classify living thin</li> <li>Give reasons for</li> <li>Pupils should build on their lead</li> <li>the idea that broad groupings</li> <li>animals into commonly found i</li> <li>should discuss reasons why</li> <li>Pupils might find out about</li> <li>Pupils might work scientifical</li> </ul> | es/Knowledge Statements (Substantive):<br>Igs into broad groups according to observable characteristics and based on similar<br>classifying plants and animals based on specific characteristics.<br>Inning about grouping living things in year 4 by looking at the classification system in more detail.<br>Such as micro-organisms, plants and animals can be subdivided. Through direct observations where<br>Invertebrates (such as insects, spiders, snails, worms) and vertebrates (fish, amphibians, reptiles,<br>living things are placed in one group and not another.<br>The significance of the work of scientists such as <u>Carl Linnaeus</u> , a pioneer of classificat<br>y by: using classification systems and keys to identify some animals and plants in the immediate env<br>s from a broad range of other habitats and decide where they belong in the classifications | They should be introduced to<br>possible, they should classify<br>birds and mammals). They<br>tion.   | <ul> <li>Key Ideas: <ul> <li>a) Variation exists within a population (and between offspr<br/>NB: this Key Idea is duplicated in Year 6 Evolution and Inher</li> <li>a) Organisms best suited to their environment are more like<br/>enough to reproduce.</li> <li>b) Organisms are best adapted to reproduce are more likel</li> <li>c) Organisms reproduce and offspring have similar characted</li> <li>d) Competition exists for resources and mates.</li> </ul> </li> </ul> | ritance.<br>ely to survin<br>y to do so.  |
| Prior Learning   |  | kdown of Lessons  |   | Vocat   |
| <ul> <li>In Year 5:</li> <li>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</li> <li>Describe the life process of reproduction in some plants and animals.</li> </ul>  | Lesson and Big Question<br>BQ: <u>Carl Linnaeus created two scientific systems</u> : the system for classifying<br>and animals and the system for naming all living things. Big Question: <u>Carl Lin</u><br>thinks things can be classified by their features – prove it. (two weeks)   | (Disciplinary/National<br>Testing (Asking Scient<br>Making Predictions, Evo<br>(Observing closely), Par<br>plants Enquiry/Identifyin<br>nnaeus<br>Using the sweets g<br>classified? Shape/<br>Report findings to<br>Week 2 - Knowledg<br>animals given think<br>Knowledge/Identif<br>between vertebrat<br>groups can be split | iven (Dolly Mixtures/All Sorts) what ways can they be<br>/colour(s)/texture etc. Creating first classification system.  | Populations.<br>Classification<br>Characteris<br>Environmen<br>flowering, r<br>flowering, p<br>animals,<br>vertebrate:<br>amphibians,<br>mammals,<br>invertebrat<br>impact, natures<br>reserves,<br>deforestation<br>Classify, co |
|  | Jan Low is an American food scientist. She is known for her work helping deve<br>the bio fortified orange-fleshed sweet potato.<br><u>Let's Investigate:</u> What makes mould grow on bread? (2 weeks)   | elop <u>Research</u> / <u>Enquiry</u> /<br>effects of microor<br>number of groups of<br>similarities and dif  | <sup>T</sup> <u>Identifying &amp; classifying</u> : Identify helpful and harmful uses and ganisms. Describing how living things are classified into a wide according to common observable characteristics and based on ferences. (including microorganisms, plants and animals by nd harmful microorganisms).   | invertebrat   |
|  |  | Scientific Enquiry/   | - What makes mould grow on bread? (over 5 days)<br>Observation: Observe slices of bread from mould investigation.<br>er question, drawing accurate conclusions about the growth of  |   |

| some plants)-  |                                      |  |
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|  | BQ: <u>Carl Linnaeus thought fungi and microorganisms could be classified by</u><br><u>different features - prove it.</u> | Looking at the various types of fungi presented, create a classification chart<br>thinking about physical appearance, poisonous/edible etc. Report findings to the<br>class. |  |
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| In KS3:  |   |  |  |
| https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/335174/SECONDARY_national_curriculumScience_220714.pdf |   |  |  |

