

|   | Workir  | ng Scientific   | ally  |          |                          |  | _                   |   |   | National  |  |
|---|---|---|---|----------|--------------------------|--|---------------------|---|---|---|--|
|   |   |   |   | Ter<br>m | Topi<br>c                | Need to<br>Know  | Steps to<br>Success | Vocabul<br>ary  | Prior<br>Learning   | Curricul<br>um  | Significant scientists   |
| Asking<br>questions<br>and<br>recognising<br>that they<br>can be<br>answered in<br>different<br>ways:<br>Asking<br>simple<br>questions<br>and<br>recognising<br>that they can<br>be answered<br>in different<br>ways. | • While<br>exploring<br>the world,<br>the children<br>develop<br>their ability<br>to ask<br>questions<br>(such as<br>what<br>something<br>is, how<br>things are<br>similar and<br>different,<br>the ways<br>things<br>work, which<br>alternative<br>is better,<br>how things<br>change and<br>how they<br>happen).<br>Where<br>appropriate<br>, they<br>answer<br>these<br>questions. | • The<br>children<br>answer<br>questions<br>developed<br>with the<br>teacher<br>often<br>through a<br>scenario. | • The<br>children<br>are<br>involved<br>in<br>planning<br>how to<br>use<br>resources<br>provided<br>to answer<br>the<br>questions<br>using<br>different<br>types of<br>enquiry,<br>helping<br>them to<br>recognise<br>that there<br>are<br>different<br>ways in<br>which<br>questions<br>can be<br>answered | Autumn 1 | Animals including humans | Children<br>can<br>describe<br>what<br>animals<br>need to<br>survive.<br>Children<br>can explain<br>that<br>animals<br>grow and<br>reproduce<br>Children<br>can explain<br>why<br>animals<br>have<br>offspring<br>which grow<br>into adults<br>Children<br>can<br>describe<br>the life<br>cycle of<br>some living<br>things<br>(bird:chicke<br>n, insect,<br>mammal,<br>amphibian,<br>reptile)<br>Children<br>can explain<br>the basic<br>needs of |                     | offspring<br>reproducti<br>on<br>growth<br>exercise<br>breathing<br>hygiene<br>germs<br>disease<br>needs-<br>air<br>shelter<br>food<br>water<br>healthy-<br>hygiene<br>exercise<br>right<br>amount of<br>food types | Children<br>can point<br>out some of<br>the<br>differences<br>between<br>different<br>animals.<br>Children<br>can sort<br>photograph<br>s of living<br>things and<br>non-living<br>things.<br>Children<br>can identify<br>and name a<br>variety of<br>common<br>animals<br>(birds, fish,<br>amphibians<br>, reptiles,<br>mammals,<br>invertebrate<br>s).<br>Children<br>can<br>describe<br>how an<br>animal is<br>suited to its<br>environmen<br>t.<br>Children<br>can identify | Pupils<br>should be<br>taught to:<br>§ notice<br>that<br>animals,<br>including<br>humans,<br>have<br>offspring<br>which<br>grow into<br>adults<br>§ find out<br>about and<br>describe<br>the basic<br>needs of<br>animals,<br>including<br>humans,<br>for<br>survival<br>(water,<br>food and<br>air)<br>§ describe<br>the<br>importanc<br>e for<br>humans of<br>exercise,<br>eating the<br>right<br>amounts<br>of different | John<br>Loudon<br>McAdam<br>(1756-1836)<br>John<br>Loudon<br>McAdam<br>was a<br>Scottish<br>engineer<br>who<br>modernised<br>the way we<br>build roads.<br>He was the<br>inventor of<br>tarmacada<br>m road<br>surfacing –<br>commonly<br>called<br>tarmac.<br>John<br>Dunlop<br>(1840-1921)<br>John<br>Dunlop was<br>a Scottish<br>inventor<br>who made<br>the first<br>rubber tyres<br>for bicycles.<br>He was |

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|-------|--|---|----------|--------------|---|--------------|-----------|--------------|
|       |  |   |          | animals,     |   | and name a   | types of  | however not  |
|       |  |   |          | including    |   | variety of   | food, and | the first    |
|       |  |   |          | humans for   |   | common       | hygiene.  | person that  |
|       |  |   |          | survival     |   | animals      |           | came up      |
|       |  |   |          | (water,      |   | that are     |           | with the     |
|       |  |   |          | food, air).  |   | carnivores,  |           | idea or      |
|       |  |   |          | Children     |   | herbivores   |           | pneumatic    |
|       |  |   |          | can          |   | and          |           | tyres.       |
|       |  |   |          | describe     |   | omnivores.   |           | .,           |
|       |  |   |          | why          |   |              |           | Julie        |
|       |  |   |          | exercise,    |   | Children     |           | Brusaw       |
|       |  |   |          | balanced     |   | can name     |           | Diusaw       |
|       |  |   |          | diet and     |   | the parts of |           | Julie is one |
|       |  |   |          |              |   |              |           |              |
|       |  |   |          | hygiene are  |   | the human    |           | of the       |
|       |  |   |          | important    |   | body that    |           | inventors of |
|       |  |   |          | for          |   | they can     |           | Solar        |
|       |  |   |          | humans.      |   | see.         |           | Roadways.    |
|       |  |   |          |              |   | Children     |           | Solar        |
|       |  |   |          | Challenge    |   | can draw &   |           | roadways     |
|       |  |   |          | Children     |   | label basic  |           | use solar    |
|       |  |   |          | can explain  |   | parts of the |           | powered      |
|       |  |   |          | that         |   | human        |           | road panels  |
|       |  |   |          | animals      |   | body.        |           | to form a    |
|       |  |   |          | reproduce    |   | Children     |           | smart        |
|       |  |   |          | in different |   | can identify |           | roadway.     |
|       |  |   |          | ways- links  |   | the main     |           |              |
|       |  |   |          | to life      |   | parts of the |           |              |
|       |  |   |          | cycles.      |   | human        |           |              |
|       |  |   |          | 0,000.       |   | body and     |           |              |
|       |  |   |          |              |   | link them to |           |              |
|       |  |   |          |              |   | their        |           |              |
|       |  |   |          |              |   | senses.      |           |              |
|       |  |   |          |              |   | Children     |           |              |
|       |  |   |          |              |   |              |           |              |
|       |  |   |          |              |   | can name     |           |              |
|       |  |   |          |              |   | the parts of |           |              |
|       |  |   |          |              |   | an animal's  |           |              |
|       |  |   |          |              |   | body (ears,  |           |              |
|       |  |   |          |              |   | tail, paws,  |           |              |
|       |  |   |          |              |   | fins ect)    |           |              |
|       |  |   |          |              |   | Children     |           |              |
|       |  |   |          |              |   | can name a   |           |              |
|       |  |   |          |              |   | range of     |           |              |
|       |  |   |          |              |   | domestic     |           |              |
|       |  |   |          |              |   | animals.     |           |              |
|       |  |   |          |              |   | Children     |           |              |
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|--|---|------------|---------------|---|
|  |   |            | can classify  |   |
|  |   |            | animals by    |   |
|  |   |            | what they     |   |
|  |   |            | eat           |   |
|  |   |            | (carnivore,   |   |
|  |   |            | herbivore,    |   |
|  |   |            | omnivore).    |   |
|  |   |            | Children      |   |
|  |   |            | can           |   |
|  |   |            | compare       |   |
|  |   |            | the bodies    |   |
|  |   |            | of different  |   |
|  |   |            | animals.      |   |
|  |   |            | allillais.    |   |
|  |   |            | Challange     |   |
|  |   |            | Challenge     |   |
|  |   |            | Children      |   |
|  |   |            | can begin     |   |
|  |   |            | to classify   |   |
|  |   |            | animals       |   |
|  |   |            | according     |   |
|  |   |            | to a number   |   |
|  |   |            | of given      |   |
|  |   |            | simple        |   |
|  |   |            | criteria.     |   |
|  |   |            | Children      |   |
|  |   |            | can point     |   |
|  |   |            | out           |   |
|  |   |            | differences   |   |
|  |   |            | between       |   |
|  |   |            | living things |   |
|  |   |            | living things |   |
|  |   |            | and non-      |   |
|  |   |            | living        |   |
|  |   |            | things.       |   |
|  |   |            | Children      |   |
|  |   |            | can name      |   |
|  |   |            | some parts    |   |
|  |   |            | of the        |   |
|  |   |            | human         |   |
|  |   |            | body that     |   |
|  |   |            | cannot be     |   |
|  |   |            | seen.         |   |
|  |   |            | Children      |   |
|  |   |            | can say       |   |
|  |   |            | why certain   |   |
|  |   |            | animals       |   |
|  | 1 |            |               | 1 |

| have<br>octain<br>characterist<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-man<br>ics-man<br>octain<br>characterist<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-man<br>octain<br>characterist<br>ics-what<br>ics-what<br>ics-what<br>ics-what<br>ics-man<br>octain<br>can name a<br>range of<br>wild<br>animals. |  |
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| Engage in<br>practical<br>enquiry to<br>answer<br>questions:<br>Performing<br>simple tests. | •The<br>children<br>use<br>practical<br>resources<br>provided to<br>gather<br>evidence to<br>answer<br>questions<br>generated<br>by<br>themselves<br>or the<br>teacher. | • They carry<br>out: tests to<br>classify;<br>comparative<br>tests;<br>pattern<br>seeking<br>enquiries;<br>and make<br>observation<br>s over time. | Identifyin<br>g and<br>classifyin<br>g.<br>• Children<br>use their<br>observati<br>ons and<br>testing to<br>compare<br>objects,<br>materials<br>and living<br>things.<br>They sort<br>and group<br>these<br>things,<br>identifying<br>their own<br>criteria for<br>sorting. | • They use<br>simple<br>secondary<br>sources<br>(such as<br>identificatio<br>n sheets)<br>to name<br>living<br>things.<br>They<br>describe<br>the<br>characteris<br>tics they<br>used to<br>identify a<br>living thing. | Autumn 2 | Uses of everyday materials & WS | Children<br>can<br>describe<br>the simple<br>physical<br>properties<br>of a variety<br>of everyday<br>materials<br>(shape,<br>size,<br>material,<br>weight,<br>texture).<br>Children<br>can<br>compare<br>and group<br>a variety of<br>materials<br>based on<br>their simple<br>physical<br>properties<br>(shape,<br>size,<br>material,<br>weight,<br>texture).<br>Children<br>can<br>compare<br>and group<br>a variety of<br>materials<br>based on<br>their simple<br>physical<br>properties<br>(shape,<br>size,<br>material,<br>weight,<br>texture).<br>Children<br>can explore<br>how the<br>shapes of<br>solid<br>objects can | Term 2-<br>What do We<br>already know?<br>Flashback<br>Friday<br>Distinguish<br>between an<br>object and the<br>material from<br>which it is made<br>(Year 1)<br>Working<br>Scientifically-<br>comparing<br>and sorting<br>Name some<br>everyday<br>objects and the<br>materials they<br>are made from.<br>Compare<br>similarities and<br>differences<br>between<br>materials based<br>on properties<br>and physical<br>characteristics.<br>Explore<br>materials<br>around the<br>classroom-<br>Create<br>questions<br>around- What if<br>they were made<br>of different<br>materials? | material<br>texture<br>group<br>compare<br>sort<br>objects<br>squash<br>bend<br>twist<br>stretch<br>natural<br>man-<br>made<br>suitable<br>wood<br>metal<br>plastic<br>glass<br>brick<br>rock<br>paper<br>card<br>surface<br>friction<br>John<br>Dunlop<br>John<br>McAdam | Children<br>can<br>distinguish<br>between an<br>object and<br>the material<br>from which<br>it is made.<br>Children<br>can<br>describe<br>materials<br>using their<br>senses<br>(touch,<br>sight, smell,<br>sound).<br>Children<br>can<br>describe<br>materials<br>using their<br>senses,<br>using their<br>senses,<br>using their<br>senses,<br>using their<br>senses,<br>using their<br>senses,<br>using<br>specific<br>scientific<br>words:<br>rough,<br>shiny,<br>smooth,<br>light,<br>heavy,<br>soft, thick,<br>thin,<br>flexible, |  |
|---|---|--|---|---|----------|---------------------------------|---|--|---|---|--|
|   |   |  |   |   |          | Uses                            | weight,<br>texture).<br>Children<br>can explore<br>how the<br>shapes of<br>solid  | materials<br>around the<br>classroom-<br>Create<br>questions<br>around- What if<br>they were made<br>of different  |   | shiny,<br>smooth,<br>light,<br>heavy,<br>soft, thick,<br>thin,  |  |

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| which are      | Questions.       | and               |  |
| man-made       | What other       | compare           |  |
| and make       | comparisons      | similarities      |  |
| comparison     | can the children | and               |  |
| S.             | make?            | differences.      |  |
| Children       | Materials used   |                   |  |
|                | for certain      | Children          |  |
| can find out   | objects based    | can explain       |  |
| about          | on purpose.      | why a             |  |
| people who     | Brick= Walls.    | material          |  |
| developed      | Glass=           | might be          |  |
| useful new     | Windows etc      | useful for a      |  |
| materials      | Introduce the    | specific job.     |  |
| (Significant   | idea of natural  | Children          |  |
| Scientists).   | vs Man-made.     | can name          |  |
| Children       | Absorbent &      | different         |  |
|                | Waterproof.      |                   |  |
| can identify   | explore which    | everyday          |  |
| and            | materials would  | materials.        |  |
| compare        | be absorbent or  | e.g. <b>wood,</b> |  |
| the            | waterproof-      | plastic,          |  |
| suitability of | Links to         | metal,            |  |
| a variety of   | purpose. Why     | water and         |  |
| everyday       | do we need       | rock              |  |
| materials,     | materials to     | Children          |  |
| including      | absorb water?    | can sort          |  |
| wood,          | Why do we        | materials         |  |
|                | need materials   |                   |  |
| metal,         | to be            | into groups       |  |
| plastic,       | waterproof?      | with a given      |  |
| glass,         | Investigation-   | criteria-         |  |
| brick, rock,   | Useless          | size,             |  |
| paper,         | Umbrella.        | shape,            |  |
| cardboard      | Reflective and   | strength,         |  |
| for            | non-reflective   | flexibility.      |  |
| particular     | materials        | Children          |  |
| uses.          | Why is this an   | can explain       |  |
| Children       | important        | how solid         |  |
|                | property? What   |                   |  |
| can explain    | could these      | shapes can        |  |
| how things     | materials be     | be changed        |  |
| move on        | used for?        | by                |  |
| different      | Investigation-   | squashing,        |  |
| surfaces.      | Be safe, Be      | bending,          |  |
|                | seen.            | twisting          |  |
| Challenge      | Insulation       | and               |  |
| Children       | What does this   | stretching.       |  |
| can explain    | mean? Why        | Stretoning.       |  |
|                | might it be      |                   |  |
| how            | useful? What     | If the            |  |

|  | materials<br>are<br>changed by<br>heating and<br>cooling.<br>Children<br>can tell<br>which<br>materials<br>cannot be<br>changed<br>back after<br>being<br>heated,<br>cooled,<br>bent,<br>stretched<br>or twisted.<br>Or<br><b>Challenge</b><br>Children<br>can<br>describe<br>the<br>properties<br>of different<br>materials<br>using | things warm?<br>Keep things<br>cold?<br>Investigation-<br>Keeping the<br>mouse warm.<br>Assessment<br>Focus Can<br>I describe the<br>simple physical<br>properties of a<br>variety of<br>everyday<br>materials? Can<br>I compare and<br>group a variety<br>of materials<br>based on their<br>simple physical<br>properties? Can<br>I say which<br>materials are<br>natural, which<br>are man-made<br>and<br>make comparis<br>ons? Can I<br>identify and<br>compare the | children<br>complete<br>the<br>previous<br>statements<br>try some of<br>these:<br><b>Challenge:</b><br>Children<br>can<br>describe<br>similarities<br>and<br>differences<br>between<br>materials.<br>Children<br>can explain<br>what<br>happens to<br>materials<br>when they<br>are heated:<br>bread, ice,<br>chocolate,<br>wax, egg.<br>Children<br>can explain<br>what |
|--|---|--|--|
|  |   | compare the<br>suitability of a  |  |

| Making<br>observation<br>s and taking<br>measureme<br>nts:<br>Observing<br>closely, using<br>simple<br>equipment. | • Children<br>explore the<br>world<br>around<br>them. They<br>make<br>careful<br>observation<br>s to support<br>identificatio<br>n,<br>comparison<br>and<br>noticing<br>change.<br>They use<br>appropriate<br>senses,<br>aided by<br>equipment<br>such as<br>magnifying<br>glasses or<br>digital<br>microscope<br>s, to make<br>their<br>observation<br>s. | • They<br>begin to<br>take<br>measureme<br>nts, initially<br>by<br>comparison<br>s, then<br>using non-<br>standard<br>units. |  | Spring 1 | flexible,<br>rigid. | Term 3- What<br>do we<br>remember?<br>Flashback<br>Friday- Recall<br>facts from<br>previous term's<br>learning.<br>Magnetic and<br>non-magnetic<br>materials.<br>What do you<br>notice about<br>materials that<br>are magnetic?<br>What everyday<br>objects are<br>magnetic?<br>What everyday<br>objects are<br>magnetic?<br>Purpose.<br>Magnet<br>investigations<br>Significant<br>Scientists-<br>John Dunlop,<br>John Louden<br>McAdams &<br>Julie Brushaw.<br>What did they<br>invent? Why<br>are their<br>inventions<br>important? How |   | are cooled:<br>jelly, heated<br>chocolate,<br>water. | Pupils<br>should be<br>taught to:<br>§ identify<br>and<br>compare<br>the<br>suitability<br>of a<br>variety of<br>everyday<br>materials,<br>including<br>wood,<br>metal,<br>plastic,<br>glass,<br>brick,<br>rock,<br>paper and<br>cardboard<br>for<br>particular<br>uses<br>§ find out<br>how the<br>shapes of<br>solid<br>objects<br>made | Dr Ernest<br>Madu (born<br>1960)<br>Dr Ernest<br>Madu is a<br>cardiologist.<br>His work<br>focuses on<br>providing<br>affordable<br>healthcare<br>in low-<br>resource<br>nations. |
|---|--|--|--|----------|---------------------|--|---|--|---|---|
|   | change.  |  |  |          |                     | magnetic?  |   |  | wood,   |   |
|   |  |  |  |          |                     | objects are  |   |  | •   |   |
|   |  |  |  |          |                     | Purpose.   |   |  | brick,  |   |
|   |  |  |  |          |                     |  |   |  |   |   |
|   |  |  |  | -        |                     |  |   |  |   |   |
|   |  |  |  | ng       |                     | Scientists-  |   |  |   |   |
|   |  |  |  | pri      |                     |  |   |  |   |   |
|   | -  |  |  | S        |                     |  |   |  |   |   |
|   |  |  |  |          |                     |  |   |  |   |   |
|   |  |  |  |          |                     |  |   |  |   |   |
|   |  |  |  |          |                     |  |   |  |   |   |
|   |  |  |  |          |                     |  |   |  |   |   |
|   | 3.   |  |  |          |                     |  |   |  |   |   |
|   |  |  |  |          |                     |  |   |  |   |   |
|   |  |  |  |          |                     | has it impacted  |   |  | from some   |   |
|   |  |  |  |          |                     | our lives?   |   |  | materials   |   |
|   |  |  |  |          |                     | Compare their  |   |  | can be  |   |
|   |  |  |  |          |                     | impact on society.   |   |  | changed   |   |
|   |  |  |  |          |                     | Materials on   |   |  | by  |   |
|   |  |  |  |          |                     | Different  |   |  | squashing   |   |
|   |  |  |  |          |                     | surfaces   |   |  | , bending,  |   |
|   |  |  |  |          |                     | Links to   |   |  | twisting  |   |
|   |  |  |  |          |                     | suitability of   |   |  | and   |   |
|   |  |  |  |          |                     | materials-   |   |  | stretching.   |   |
|   |  |  |  |          |                     | Shoes on mud   |   |  | en otorinig.  |   |
|   |  |  |  |          |                     | and ice vs Ice   |   |  |   |   |
|   |  |  |  |          |                     | skate on ice.  |   |  |   |   |
|   |  |  |  |          |                     | Cars on<br>different road  |   |  |   |   |
| L   |  |  |  |          | l                   |  | I | I  |   |   |

| Surfaces-<br>Purpose of a<br>tyre. Introduce<br>the idea of<br>friction- more |  |
|---|--|
| tyre. Introduce<br>the idea of<br>friction- more                              |  |
| the idea of<br>friction- more   |  |
| the idea of<br>friction- more   |  |
| friction- more  |  |
|   |  |
|   |  |
| friction = slows  |  |
| things down.  |  |
| Less friction=  |  |
| Things travel   |  |
| quicker.  |  |
| Investigation-  |  |
| Car on a ramp-  |  |
| different   |  |
| materials. How  |  |
| far does it travel  |  |
| on different  |  |
|   |  |
| surfaces?   |  |
| Conclude using  |  |
| results- more or  |  |
| less friction.  |  |
| How can solid   |  |
| shapes be   |  |
| changed?  |  |
| Introduce the   |  |
| idea of solids  |  |
| and liquids.  |  |
| Can children  |  |
|   |  |
| name any?   |  |
| Reflect on what   |  |
| the children  |  |
| know about  |  |
| some solid  |  |
| shapes. i.e.  |  |
| wood. Can it be   |  |
| bent, squashed,   |  |
| stretched and   |  |
| twisted and go  |  |
| back to its   |  |
| original form?  |  |
|   |  |
| Some solid  |  |
| materials   |  |
| cannot be   |  |
| stretched,  |  |
| twisted, bent or  |  |
| squashed.   |  |
| Some solid  |  |
| materials will  |  |
| break.  |  |
| Investigation-  |  |
|   |  |
| Explore   |  |

|  |   |  |   |          |             |   | bending,<br>twisting,<br>squashing and<br>stretching solid<br>materials.<br>Assessment<br>Focus- Can I<br>explore how the<br>shapes of solid<br>objects can be<br>changed? Can I<br>find out about<br>people who<br>developed<br>useful new<br>materials? Can<br>I explain how<br>things move on<br>different<br>surfaces? Can I<br>describe the<br>simple physical<br>properties of a<br>variety of<br>everyday<br>materials? |   |  |   |   |
|--|---|--|---|----------|-------------|---|--|---|--|---|---|
| Recording<br>and<br>presenting<br>evidence:<br>Gathering<br>and<br>recording<br>data to help<br>in answering<br>questions. | •The<br>children<br>record their<br>observation<br>s e.g. using<br>photograph<br>s, videos,<br>drawings,<br>labelled<br>diagrams<br>or in<br>writing. | • They<br>record their<br>measureme<br>nts e.g.<br>using<br>prepared<br>tables,<br>pictograms,<br>tally charts<br>and block<br>graphs. | • They<br>classify<br>using<br>simple<br>prepared<br>tables<br>and<br>sorting<br>rings. | Spring 2 | Plants & WS | Children<br>can<br>describe<br>what plants<br>need to<br>survive.<br>Children<br>can<br>observe<br>and<br>describe<br>how seeds | Term 4- What<br>do we<br>already<br>know?<br>Flashback<br>Friday. Parts<br>of a flower<br>and tree (Year<br>1).  | plants<br>petals<br>roots<br>stem<br>leaves<br>seeds<br>seedling<br>bulbs<br>light<br>Water<br>Air<br>Space | Children<br>can name<br>the petal,<br>stem, leaf,<br>bulb,<br>flower,<br>seed, stem<br>and root of<br>a plant.<br>Children<br>can identify<br>and name | Pupils<br>should be<br>taught to:<br>§ observe<br>and<br>describe<br>how<br>seeds and<br>bulbs<br>grow into<br>mature | David<br>Douglas<br>(1799-1834)<br>David<br>Douglas<br>was a<br>Scottish<br>botanist,<br>best known<br>as the<br>namesake |

| Answering<br>questions<br>and<br>concluding:<br>Using their<br>observations<br>and ideas to<br>suggest<br>answers to<br>questions. | • The<br>children<br>recognise<br>'biggest<br>and<br>smallest',<br>'best and<br>worst' etc.<br>from their<br>data. |  | Summer 1 |  | and bulbs<br>grow into<br>mature<br>plants.<br>Children<br>can find out<br>& describe<br>how plants<br>need water,<br>light and a<br>suitable<br>temperatur<br>e to grow<br>and stay<br>healthy.<br><b>Challenge:</b><br>Children<br>can<br>describe<br>what plants<br>need to<br>survive and<br>link it to<br>where they<br>are found<br>(environme<br>nts/<br>compare).<br>Children<br>can explain<br>how plants<br>grow and<br>reproduce<br>in different<br>ways<br>(compare). |  | Light<br>nutrients<br>warmth<br>survive<br>healthy<br>germinate<br>grow<br>reproduce<br>environme<br>nt | common<br>UK plants<br>and trees.<br>Children<br>can<br>recognise<br>and<br>compare<br>deciduous<br>and<br>evergreen<br>trees.<br>Children<br>can name<br>the trunk,<br>branches<br>and root of<br>a tree.<br>Children<br>can<br>describe<br>the parts of<br>a plant<br>(roots,<br>stem,<br>leaves,<br>flowers). | plants<br>§ find out<br>and<br>describe<br>how<br>plants<br>need<br>water,<br>light and a<br>suitable<br>temperatu<br>re to grow<br>and stay<br>healthy | of the<br>Douglas-fir.<br>He worked<br>as a<br>gardener,<br>and<br>explored the<br>Scottish<br>Highlands,<br>North<br>America,<br>and<br>Hawaii. |
|--|--|--|----------|--|---|--|---|--|---|--|
|--|--|--|----------|--|---|--|---|--|---|--|

| [ | Children    |          |                    | Children           |  | living     |  | Pupils                  | Jeff Corwin           |
|---|-------------|----------|--------------------|--------------------|--|------------|--|-------------------------|-----------------------|
|   | use their   |          |                    | can match          |  | dead       |  | should be               |                       |
|   | experience  |          |                    | certain            |  | non-living |  | taught to:              | Jeff Corwin           |
|   | s of the    |          |                    | living things      |  | habitat    |  | laught to.              | is an                 |
|   | world       |          |                    | to the             |  | micro-     |  | § explore               | American              |
|   | around      |          |                    | habitats           |  | habitat    |  | and                     | animal and            |
|   | them to     |          |                    | they are           |  | food chain |  | compare                 | nature                |
|   | suggest     |          |                    | found in.          |  | woodland   |  | the                     | conservatio           |
|   | appropriate |          |                    | Children           |  | pond       |  | difference              | nist. He is           |
|   | answers to  |          |                    | can explain        |  | seashore   |  | s between               | best known            |
|   | questions.  |          |                    | the                |  | polar      |  | things that             | for hosting           |
|   | They are    |          |                    | differences        |  | ocean      |  | are living,             | Animal                |
|   | supported   |          |                    | between            |  | rainforest |  | dead, and               | Planet's              |
|   | to relate   |          |                    | living and         |  | eaten by   |  | things that             | 'The Jeff             |
|   | these to    |          |                    | non-living         |  | water      |  | have                    | Corwin                |
|   | their       |          |                    | things.            |  | nutrients  |  | never                   | Experience'           |
|   | evidence    |          | 6                  | Children           |  | warmth     |  | been alive              | and                   |
|   | e.g.        |          | and their habitats | can decide         |  | movement   |  | § identify              | 'Corwin's             |
|   | observation |          | abit               | whether            |  | growth     |  | that most               | Quest'. He            |
|   | s they have |          | ha                 | something          |  | air        |  | living                  | first                 |
|   | made,       | 2        | eir                | is living,         |  |            |  | things live             | experienced           |
|   | measurem    | er       | l th               | dead or            |  |            |  | in habitats             | the tropical          |
|   | ents they   | E        | anc                | non-living.        |  |            |  | to which                | rainforests           |
|   | have taken  | Summer 2 | S                  | Children           |  |            |  | they are                | in 1984 in            |
|   | or          | S        | ing                | can                |  |            |  | suited and              | Belize. Is an         |
|   | information |          | Living things      | describe           |  |            |  | describe                | active                |
|   | they have   |          | ng                 | some of the        |  |            |  | how                     | supporter of          |
|   | gained      |          | ΪŻ                 | life               |  |            |  | different               | the tropical          |
|   | from        |          |                    | processes          |  |            |  | habitats                | rainforest            |
|   | secondary   |          |                    | common to          |  |            |  | provide for             | conservatio           |
|   | sources.    |          |                    | plants and         |  |            |  | the basic               | n in Central          |
|   |             |          |                    | animals,           |  |            |  | needs of                | and South             |
|   |             |          |                    | including          |  |            |  | different               | America.              |
|   |             |          |                    | humans.            |  |            |  | kinds of                |                       |
|   |             |          |                    | Children           |  |            |  | animals                 | Dr. Archie            |
|   |             |          |                    | can                |  |            |  | and                     | Fairly Carr           |
|   |             |          |                    | describe           |  |            |  | plants,                 |                       |
|   |             |          |                    | how a              |  |            |  | and how                 | Dr. Archie            |
|   |             |          |                    | habitat            |  |            |  | they                    | Fairly Carr           |
|   |             |          |                    | provides for       |  |            |  | depend on<br>each other | was a                 |
|   |             |          |                    | the basic          |  |            |  |                         | famous                |
|   |             |          |                    | needs of           |  |            |  | § identify<br>and name  | zoologist             |
|   |             |          |                    | things living      |  |            |  |                         | who was<br>best known |
|   |             |          |                    | there.<br>Children |  |            |  | a variety<br>of plants  | for his study         |
| L |             |          |                    | Children           |  |            |  | or plants               | IOI THE SLUDY         |

|  |  |  | can<br>describe a<br>range of<br>different<br>habitats.<br>Children<br>can<br>describe<br>how plants<br>and<br>animals are<br>suited to<br>their<br>habitat.<br><b>Challenge</b><br>Children<br>can name<br>some<br>characterist<br>ics of an<br>animal that<br>help it to<br>live in a<br>particular<br>habitat.<br>Children<br>can<br>describe<br>what<br>animals<br>need to<br>survive and<br>link this to<br>their<br>habitats. |  | and<br>animals in<br>their<br>habitats,<br>including<br>microhabit<br>ats<br>§ describe<br>how<br>animals<br>obtain<br>their food<br>from<br>plants and<br>other<br>animals,<br>using the<br>idea of a<br>simple<br>food<br>chain, and<br>identify<br>and name<br>different<br>sources of<br>food. | of sea<br>turtles. He<br>was one of<br>the co-<br>founders of<br>the<br>Caribbean<br>Conservatio<br>n<br>Corporation,<br>which<br>strives to<br>save and<br>monitor sea<br>turtles in<br>Costa Rica. |
|--|--|--|---|--|--|--|
|--|--|--|---|--|--|--|

| Evaluating<br>& raising<br>further<br>questions:<br>Using results<br>to draw<br>simple<br>conclusions,<br>make<br>predictions<br>for new<br>values,<br>suggest<br>improvement<br>s and raise<br>further<br>questions. | Although<br>there are no<br>specific<br>objectives<br>for year 1 &<br>2, it will not<br>hurt for the<br>children to<br>be exposed<br>to this<br>language<br>and way of<br>thinking.<br>Evaluation,<br>questioning<br>and<br>prediction<br>skills are<br>used across<br>all areas of<br>the<br>curriculum. | This could<br>be done<br>verbally, as<br>a whole<br>class, in<br>pairs or<br>recorded as<br>a class on<br>flipchart<br>paper or<br>post its. |  |
|---|---|--|--|
| Communica<br>ting<br>findings:<br>Reporting on<br>findings from<br>enquiries,<br>including oral<br>and written<br>explanations,<br>displays or<br>presentations<br>of results and<br>conclusions.                     | Although<br>there are no<br>specific<br>objectives<br>for year 1 &<br>2, it will not<br>hurt for the<br>children to<br>be exposed<br>to this<br>language<br>and way of<br>thinking.<br>Evaluation,<br>questioning<br>and<br>prediction<br>skills are<br>used across<br>all areas of<br>the<br>curriculum. | This could<br>be done<br>verbally, as<br>a whole<br>class, in<br>pairs or<br>recorded as<br>a class on<br>flipchart<br>paper or<br>post its. |  |