



| CARES CAPOOL | Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--------------------------|---|--|--|---|---|---|---|---|
| Animals Including Humans | To be able to use all their senses in hands- on exploration of natural materials. | To be able to name and describe people who are familiar to them. | To be able to identify different parts of the human body and face To be able to identify different senses To be able to investigate a human trait e.g. leg length To be able to pose their own question to answer relating to a human trait e.g. do legs get longer as you get older? To be able to investigate using our senses e.g. sounds and sorting sounds To be able to pose our own investigation on senses e.g. taste and sorting tastes To be able to explore what a habitat is | To be able to order the life stages of a human To be able to match young to the adult of their species To be able to examine the life stages of another animal or insect To be able to sort what a particular animal and a human needs to survive and what they don't To be able to investigate the effect of exercise on the heart To be able to pose their own investigation question for exercise effects on different ages e.g. how many star jumps you can do in a minute as you get older | To be able to identify main food groups To be able to sort food into food groups To be able to match food to function in humans and different animals To be able to draw the main bones on an outline of a human body and their functions To be able to identify the names of bones in a human and match these to the main bones in an animal To be able to sort animals with and without skeletons | To be able to examine and name different teeth in humans and compare to other animals To be able to draw and label the parts of a digestive system on the outline of a human To be able to order the digestive system and the function To be able to investigate the function of the intestine e.g. tights experiment To be able to order food chains To be able to sort producers, predators and prey. | To be able to order the life stages of a human To be able to research foetal development and record length of a foetus on a graph To be able to sort milestones of a baby and a child To be able to match animals with gestational periods To be able to order life expectancy or different animals | To be able to draw and label the circulatory system on an outline of a human body To be able to match the function to the part of the heart and order the journey of blood To be able to identify the components of blood To be able to describe the transportation of nutrients and water around the body. To be able to pose own question to investigate heart rate e.g. the effects of exercise on heart rate To be able to match the lifestyle choice |





| | | | To be able to sort | To be able to | | | with the effects |
|--------|-------------------|---------------|--------------------|---------------------|---------------------|--|------------------|
| | | | animals to their | match animals | | | on the body |
| | | | habitats | with what they | | | on me body |
| | | | To be able to | eat | | | |
| | | | investigate where | To be able to look | | | |
| | | | animals live in a | at a food chain | | | |
| | | | habitat | for humans | | | |
| | | | To be able to | To be able to sort | | | |
| | | | identify the | animals into simple | | | |
| | | | species of an | food chains | | | |
| | | | animal e.g. bird, | To be able to | | | |
| | | | amphibian | understand that | | | |
| | | | To be able to sort | plants get their | | | |
| | | | animals based on | energy from the | | | |
| | | | their species | sun | | | |
| | | | To be able to | To be able to | | | |
| | | | identify what an | investigate how a | | | |
| | | | animal would eat | habitat is | | | |
| | | | | different in | | | |
| | | | | different weather | | | |
| | | | | (comparing results | | | |
| | | | | to autumn) | | | |
| | | | | To be able to sort | | | |
| | | | | living things found | | | |
| | | | | in the local area | | | |
| | | | | and identify them. | | | |
| Plants | To be able to | To be able to | To be able to look | To be able to | To be able to | | |
| | plant seeds and | explore the | for plants and | examine different | match plants | | |
| | care for growing | natural world | trees in the local | seeds that | needs with reason | | |
| | plants. | around them. | area | disperse in | To be able to | | |
| | To be able to | To be able to | To be able to | different ways | dissect a flower | | |
| | understand the | recognise | identify the | To be able to | and look at | | |
| | key features of | some | features of | match seeds to | different parts | | |
| | the life cycle of | environments | common plants | their dispersal | To be able to label | | |
| | a plant and an | that are | and trees | method | different parts of | | |
| | animal. | different to | To be able to sort | To be able to | a flower | | |
| | To be able to | the one in | trees and plants | examine plants in | | | |
| | begin to | | - | · | | | |





| understand the | which they | according to their | their local | To be able to label | | |
|--------------------|------------|--------------------|---------------------|---------------------|--|--|
| need to respect | live. | own criteria | environment | a flower and | | |
| and care for the | | To be able to | To be able to | describe the parts | | |
| natural | | identify the trees | identify what a | To be able to | | |
| environment and | | and plants found | plant needs to | examine | | |
| all living things. | | in a different | survive and why | pollination and | | |
| | | habitat | To be able to set | seed production | | |
| | | To be able to | own question for | To be able sort | | |
| | | identify the main | investigation e.g. | seed dispersal | | |
| | | parts of a plant | how long will cress | with different | | |
| | | To be able to | grow week by | fruits | | |
| | | identify the main | week? | To be able to | | |
| | | parts of a tree | | investigate the | | |
| | | To be able to | | effect that water | | |
| | | discuss what a | | has on seeds | | |
| | | plant needs to | | To be able to pose | | |
| | | survive | | their own question | | |
| | | To be able to | | for growing cress | | |
| | | match plants | | e.g. placing cress | | |
| | | needs and what | | in different | | |
| | | they use it for | | environments | | |
| | | To be able to | | To be able to | | |
| | | grow their own | | order water | | |
| | | seeds using what | | transportation in a | | |
| | | they know about | | plant | | |
| | | plants | | To be able to | | |
| | | | | investigate water | | |
| | | | | transportation in a | | |
| | | | | flower | | |
| | | | | To be able to pose | | |
| | | | | own question to | | |
| | | | | investigate what | | |
| | | | | happens to water | | |
| | | | | transportation in | | |
| | | | | different | | |
| | | | | conditions e.g. | | |
| | | | | warmth | | |





| Living Things and | To be able to | To be able to | To be able to | To be able to sort |
|-------------------|-----------------------------------|----------------------|---|--------------------|
| their Habitats | | match | | |
| Their Habitats | examine things | characteristic to | observe plants and | animals, plants |
| | that are alive, dead and never | | animals in the | and |
| | | description | local environment | microorganisms |
| | been alive | To be able to | To be able to | within groups and |
| | To be able to sort | investigate living | identify the main | find odd ones out |
| | things that are | things in the local | parts of a flower | To be able to |
| | alive, dead or | area | including male and | order the |
| | never been alive | To be able to sort | female parts | Linnaeus |
| | To be able to | living things into | To be able to | classification |
| | match features of | vertebrate and | distinguish | system |
| | things that are | invertebrate | between sexual | To be able to |
| | alive, dead or | groups | and asexual | classify living |
| | never been alive | To be able to sort | reproduction | things using |
| | To be able to | living things found | To be able to | Linnaeus |
| | investigate | in the local area | investigate | classification |
| | microhabitats | into own groups | asexual | To be able to |
| | To be able to pose | To be able to use | reproduction in | classify animals |
| | own question to | a classification | plants e.g. | and plants from |
| | research relating | key to identify | grafting plant | the local |
| | to habitats e.g. | living things | parts | environment |
| | how many worms | To be able to | To be able to sort | To be able to |
| | will we find under | create own sorting | plants that | investigate a |
| | a stone at the | key to sort one | produce sexually | habitat and |
| | ponds? | group of living | and asexually | animals that live |
| | To be able to | things e.g. insects | To be able to | there and their |
| | examine features | or plants | order the stages | classification |
| | of an animal that | To be able to | of reproduction in | To be able to find |
| | it needs to survive | investigate living | different | the classification |
| | in a particular | things in the local | mammals and | system for |
| | habitat | area | understand how | unfamiliar animals |
| | | To be able to | some mammals | and plants |
| | | create | grow outside of | ' |
| | | classification keys | the female's body | |
| | | for living things in | To be able to | |
| | | local area | observe and group | |
| | | To be able to | | |
| | | investigate | ····· F······ | |
| | | | observe and group animals and plants | |





| | climate change | in the local | |
|---------------|--------------------|--------------------|--------------------|
| | e.g. glass jar | environment | |
| | experiment | To be able to | |
| | To be able to | order the | |
| | research habitats | lifecycle of a | |
| | affected by | mammals, birds, | |
| | climate change | insects and | |
| | To be able to sort | amphibians | |
| | positive and | To be able to | |
| | negative effects | compare the | |
| | of human impact | lifecycles of | |
| | on environments | birds, amphibians, | |
| | | insects and | |
| | | mammals. | |
| | | To be able to | |
| | | explore the | |
| | | lifecycle of a | |
| | | flowering plant | |
| | | To be able to | |
| | | research a | |
| | | naturalist | |
| | | scientist e.g. | |
| | | David | |
| | | Attenborough or | |
| | | Jane Goodall | |
| Evolution and | | | To be able to sort |
| Inheritance | | | nherited and |
| | | | environmental |
| | | | raits |
| | | | Γο be able to |
| | | | describe |
| | | | idaptations of |
| | | | nimals and plants |
| | | | o their |
| | | | environment |
| | | | To be able to |
| | | | |
| | | i i | nvestigate |





| | | | | local environment |
|--|--|--|--|--------------------|
| | | | | and how they are |
| | | | | adapted for |
| | | | | survival e.g. |
| | | | | hedgehog |
| | | | | To be able to sort |
| | | | | animals to their |
| | | | | environment and |
| | | | | describe their |
| | | | | adaptations |
| | | | | To be able to |
| | | | | investigate cross |
| | | | | breeding of a |
| | | | | common animal |
| | | | | e.g. what mixed |
| | | | | breed would dogs |
| | | | | produce? |
| | | | | To be able to sort |
| | | | | fossils into plant |
| | | | | and animals |
| | | | | To be able to |
| | | | | examine a species |
| | | | | and how it has |
| | | | | adapted over time |
| | | | | To be able to sort |
| | | | | the advantages |
| | | | | and disadvantages |
| | | | | of a particular |
| | | | | adaptation e.g. |
| | | | | walking on 2 feet |
| | | | | instead of 4 |
| | | | | To be able to sort |
| | | | | chaffinches into |
| | | | | the best beak to |
| | | | | purpose |
| | | | | To be able to |
| | | | | research an |
| | | | | evolutionary |





| | | | | | | scientist e.g. Charles Darwin or Mary Anning |
|-----------------|---|--|--|---|---|--|
| Seasonal Change | To be able to understand the key features of the life cycle of a plant and an animal. | To be able to explore the natural world around them. To be able to describe what they see, hear and feel whilst outside. To be able to understand the effect of changing seasons on the natural world around them. | To be able to identify different types of weather To be able to link weather to a season To be able to investigate a feature of a season e.g. rainfall per month To be able to pose own questions to investigate e.g. how many days it will snow this year To be able to discuss how we know length of day and night changes To be able to investigate how to sun moves e.g. shadows | | | |
| Forces | To be able to explore how things work. To be able to explore and talk about different forces they can | To be able to explore the natural world around them. To be able to describe what they see, hear | | To be able to experiment with magnets and how they work To be able to sort materials into magnetic and non- | To be able to sort forces To be able to explore different objects falling through the air To be able to | |





| | To be able to | and feel | | To be able to | resistance e.g. | |
|-------|----------------|-----------------|--|----------------------|---------------------|--------------------|
| | talk about the | whilst outside. | | investigate | making own | |
| | differences | | | whether a magnet | parachutes | |
| | between | | | with repel or | To be able to | |
| | materials and | | | attract another | investigate water | |
| | changes they | | | magnet | resistance e.g. | |
| | notice. | | | To be able to | different shapes | |
| | | | | investigate | falling through | |
| | | | | magnetism over a | water | |
| | | | | distance | To be able to sort | |
| | | | | To be able to pose | levers, pulleys and | |
| | | | | own question to | gears. | |
| | | | | investigate e.g. | To be able to pose | |
| | | | | does the surface | own question for | |
| | | | | make a difference | leavers, pulleys or | |
| | | | | to how far away a | gears e.g. which | |
| | | | | magnet will | material makes | |
| | | | | attract an object | the best brake | |
| | | | | To be able to | pad | |
| | | | | investigate | | |
| | | | | different sized | | |
| | | | | magnets and their | | |
| | | | | magnetism e.g. | | |
| | | | | how many paper | | |
| | | | | clips they will pick | | |
| | | | | ир | | |
| Light | To be able to | To be able to | | To be able to | | To be able to |
| | explore how | describe what | | experiment with | | experiment with |
| | things work. | they see, hear | | light from | | light sources and |
| | To be able to | and feel | | different sources | | angles of |
| | talk about the | whilst outside. | | and how shadows | | incidence and |
| | differences in | | | are made | | reflection e.g. |
| | materials and | | | To be able to | | mirrors and light |
| | changes they | | | investigate how | | boxes |
| | notice. | | | mirrors bend light | | To be able to |
| | | | | around a corner | | order how light is |
| | | | | To be able to pose | | seen by the eye |
| | | | | own question to | | |





| | | | | investigate e.g. how can we use mirrors to bend light around an object To be able to investigate how much light passes through objects To be able to investigate shadow length using light at different angles To be able to investigate shadows posing own question e.g. how does shadow length change during the day | | To be able to investigate how to split light into the rainbow of colours e.g. prism activity To pose their own question to investigate about light e.g. how can we make a periscope? To be able to investigate shadows e.g. the size of a shadow based on the size of an object To be able to pose own question for investigation e.g. do different materials affect the shape of the shadow produced? |
|-------|--|---|--|--|--|--|
| Sound | To be able to explore how things work. | To be able to describe what they see, hear and feel whilst outside. | | | To be able to investigate different sounds and how these are heard To be able to observe that sounds decrease when further away To be able to investigate pitch e.g. making own instruments with | |





| | | | different thickness elastic bands To be able to investigate vibration of sound linked to volume e.g. drum and rice To be able to pose own investigation linked to volume e.g. which material would make the best ear defenders | | |
|-----------------|--|--|--|--|--|
| Earth and Space | To be able to explore the natural world around them. To be able to describe what they see, hear and feel whilst outside. | | | To be able to investigate movement of the earth around the sun and seasons e.g. balls and torch To be able to order the planets in the solar system To be able to describe the moment of planets in relation to the sun To be able to explore the geocentric and heliocentric models of the solar system | |





| | | | | | | To be able to explore day and night To be able to order phases of the moon | |
|-------------|--|--|---|--|---|--|--|
| Electricity | To be able to explore how things work. | | | | To be able to explore and name electrical components To be able to identify appliances that run on batteries and mains and how to keep safe around electricity To be able to investigate whether a bulb will light in a circuit To be able to investigate switches within circuits To be able to pose own question for investigation based on insulators and conductors | | To be able to identity and use different components for a circuit To be able to match the components with circuit diagram symbols To be able to investigate number of cells in a circuit To be able to pose own investigation linked to resistance e.g. does the length of wire affect the brightness of a bulb? |
| Materials | To be able to use all their senses in hands- | To be able to identify different materials | To be able to examine different materials | To be able to observe different rocks and talk | To be able to group materials | To be able to sort materials based | |





| on exploration of | To be able to | To be able to | about their | To be able to | on their | |
|-------------------|--------------------|---------------------|---------------------|----------------------|---------------------|--|
| natural | identify | match different | properties | investigate gas | properties | |
| materials. | properties of | materials and | To be able to sort | e.g. dancing raisins | To be able to | |
| To be able to | common materials | their properties | rocks according to | To be able to | investigate | |
| explore | To be able to sort | To be able to sort | their properties | explore the | reversible and | |
| collections of | materials based | materials | To be able to | changing states of | irreversible | |
| materials with | on whether they | according to their | investigate adding | materials including | changes e.g. water | |
| similar and/or | are magnetic or | own criteria e.g. | water to rocks | condensation and | and toast To be | |
| different | not | hard and soft | To be able to pose | evaporation | able to investigate | |
| properties. | To be able to sort | To be able to | their own question | To be able to | separating a | |
| To be able to | other materials | investigate | to investigate e.g. | investigate | solution e.g. sand | |
| talk about the | according to | different | what happens | changing state of | and water | |
| differences | properties that | materials used | when an acid is | water e.g. melting | To be able to pose | |
| between | the children | around a | added to rocks | and boiling points | their own question | |
| materials and | decide | particular area | To be able to | To be able to pose | for separating | |
| changes they | To be able to | e.g. a car or | investigate the | own question to | solutions e.g. how | |
| notice. | identify materials | school | component of soil | investigate e.g. | can we separate a | |
| | used for | To be able to | To be able to | how long will it | sugar and water | |
| | different things | match a material | explain how fossils | take for the ice to | solution? | |
| | To be able to | to their use | are formed | melt? | To be able to | |
| | investigate which | To be able to | | To be able to | investigate which | |
| | materials is best | design an object | | order the water | material is best | |
| | for a purpose e.g. | thinking about the | | cycle | for a particular | |
| | building a dog | most appropriate | | | purpose e.g. which | |
| | basket | material and why | | | material is best | |
| | | To be able to | | | for a lunch box? | |
| | | investigate | | | To be able to pose | |
| | | absorbency of a | | | their own question | |
| | | material | | | for investigation | |
| | | To be able to | | | about properties | |
| | | research own | | | of materials e.g. | |
| | | question e.g. which | | | which material will | |
| | | material is best to | | | make the best | |
| | | waterproof a roof | | | coat for a | |
| | | To be able to test | | | snowman? | |
| | | rigidity of a | | | | |
| | | material | | | | |





| To pose their own |
|--------------------|
| question based on |
| bounce e.g. which |
| ball will bounce |
| the highest |
| To be able to |
| investigate |
| strength |
| To be able to pose |
| their own question |
| for investigating |
| strength e.g. |
| which paper |
| bridge will hold |
| the most weight |
| |