Foston CE, Terrington CE VA & Stillington Primary Schools Progression Map

'Love, Learn & Grow Together'

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Understanding Animals and Humans

Subject Intent:

Within our Federation of schools, we intend that all our children will develop a deep curiosity about the world around them, and to experience the wonder which comes with gaining a knowledge and understanding about the processes and systems they can and can't see.

Our children will further develop:

- The ability to think independently and raise questions about working scientifically and the knowledge and skills that it brings;
- Confidence and competence in the full range of practical skills;
- Excellent scientific knowledge and understanding which is demonstrated in written and verbal explanations;
- Scientific enquiry skills to be embedded in each topic throughout the school to allow the children to build upon prior knowledge;
- The ability to undertake practical work in a variety of contexts;
- Have a clear understanding of the jobs available from science specialisms.

| Key Concept | Overview | EYFS | Key Stage 1 | Key Stage 2 Cycle | |
|-------------------------------|----------------|---|--------------------------------|---|--|
| tanding Animals and Humans | Topic | Spring Term 2 Growing babies Spring Term 2 Growing -On the farm -Growing animals | The Animal Kingdom | Understand animals and humans | Understand animals and humans |
| erst | Objectives NC/ | 3 and 4 year olds | Identify and name a variety of | LKS2 | UKS2 |
| Unders | Milestones | | common animals that are | Identify that animals, including humans, need the right types and | Describe the changes as humans develop to old age. |

| | 1 1 6 1 10 1 10 | | |
|-------------------------------|--|---------------------------------------|--|
| Understand the key | birds, fish, amphibians, reptiles, | amounts of nutrition that | |
| features of the life cycle of | mammals and invertebrates. | they cannot make their own food | |
| an animal. | | and they get nutrition from what | |
| | Identify and name a variety of | they eat. | Identify and name the main parts of |
| | common animals that | | the human circulatory system, and |
| | are carnivores, herbivores and | Construct and interpret a variety of | describe the functions of, the heart, |
| | omnivores. | food chains, identifying producers, | blood vessels and blood. |
| | | predators and prey. | |
| | Describe and compare the | ' ' | |
| | structure of a variety of | Identify that humans and some | |
| | common animals (birds, fish, | animals have skeletons and | Recognise the importance of diet, |
| | amphibians, reptiles, mammals | muscles for support, | exercise, drugs, and lifestyle on the |
| | and invertebrates, including pets). | protection and movement. | way the human body functions. |
| | and invertebrates, including pets). | protection and movement. | |
| | Identify name draw and label the | Describe the simple functions of | |
| | Identify name, draw and label the | Describe the simple functions of | _ ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, |
| | basic parts of the human body and | the basic parts of the digestive | Describe the ways in which nutrients |
| | say which part of the body is | system in humans. | and water are transported in |
| | associated with each sense. | | animals, including humans. |
| | | Identify the different types of teeth | |
| | Notice that animals, including | in humans and their simple | |
| | humans, have offspring which grow | functions | |
| | into adults. | | |
| | | | |
| | Investigate and describe the basic | | |
| | needs of animals, | | |
| | including humans, for survival | | |
| | (water, food and air). | | |
| | | | |
| | Describe the importance for | | |
| | humans of exercise, eating | | |
| | the right amounts of different | | |
| | types of food and hygiene. | | |
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Knowledge

Reception

Know and talk about the different factors that support their overall health and wellbeing:

- -regular physical activity
- -healthy eating
- -tooth brushing
- -sensible amounts of 'screen time'
- having a good sleep routine
- -being a safe pedestrian

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Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

To be able to identify and name a variety of common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates.

Specific example/s to be taught:

Chicken, human, frog, tortoise, bear, fish, shark, ostrich, terrapin, tiger, snake, duck, lizard, spider, crab, starfish.

Identify and name a variety of common animals that are carnivores, herbivores and

omnivores.

Specific example/s to be taught:

Horse, pig, hedgehog, elephant, chicken, cat, shark, tiger, giraffe, polar bear, bear, panda.

Describe and compare the structure of a variety of common animals (birds, fish,

amphibians, reptiles, mammals and invertebrates, including pets).

That animals, including humans, need the right types and amounts of nutrition that they cannot make their own food and they get nutrition from what they eat.

Specific example/s to be taught:

Examples of foods from the following food groups:
Bread, cereal and potatoes
Fruits and vegetables
Meat and fish
Milk and dairy
Fats and sugars

That there are herbivores, carnivores and omnivores in the animal kingdom.

The skills to construct and interpret a variety of food chains, identifying producers, predators and prey.

Specific example/s to be taught:

Food webs:

Rabbit, snake, grasshopper, mouse, lizard, hawk, grass.

To identify and describe the changes of humans as they develop to old age

Specific example/s to be taught:

skin wrinkles and becomes drier, bones become more visible, bones and muscles become weaker, memory gets worse, immune system cannot fight disease as easily.

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To know that the main parts of the circulatory system are the heart, blood and blood vessels.

Specific example/s to be taught:

Heart, blood vessels, blood.

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That diet, exercise, drugs and lifestyle have an impact on the way the human body functions.

Specific example/s to be taught:

Alcohol Legal and illegal drugs Tobacco obesity

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Specific example/s to be taught: Shark, bear, owl, fish, deer, dog, pig, cat, giraffe, dolphin, lion, mouse.

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Identify name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.

Specific example/s to be taught:

head, neck, arm, elbow, leg, knee, face, ear, eye, hair, mouth, teeth, sight, smell, touch, hearing, taste.

Notice that animals, including humans, have offspring which grow into adults.

Specific example/s to be taught:

Humans – baby, toddler, child, teenager, adult.

Animals – chickens, tigers, butterflies.

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To know that humans and some animals have skeletons and muscles for support, protection and movement.

Specific example/s to be taught:

Skull, jaw, humerus, radius, ulna, tibia, fibula, pelvis, femur, spine. Exoskeleton - ants Endoskeleton - elephants Hydroskeleton – earthworm Triceps and biceps

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To describe the simple functions of the basic parts of the digestive system in humans.

Specific example/s to be taught:

Mouth – food is cut, mashed and softened by the mouth, tongue and teeth.

Oesophagus – the pipe connecting the mouth to the stomach.
Stomach – acts like a washing machine, cleaning food and starting to break it down.
Small intestine – absorbs most of the nutrients.

Large intestine – water is removed, and the rest of the food expelled as faeces.

To describe the ways in which nutrients and water are transported within animals, including humans

Specific example/s to be taught:

That nutrients and water are transported within the circulatory system.

Investigate and describe the basic needs of animals, To identify the different types of including humans, for survival teeth in humans and their simple (water, food and air). Specific example/s to be taught: functions. Humans – water, food, air, shelter, Specific example/s to be taught: clothing. Incisors – cut food Animals – water, food, air, shelter. Canines – rip chunks off food Molars – grind food Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene. Specific example/s to be taught: Exercise – that muscles become stronger and food energy is used up, and the other associated mental and physical benefits. **Healthy eating** – importance of a balanced diet, with foods from the different food groups (bread, cereals and potatoes, fruits and vegetables, meat and fish, milk and dairy, fats and sugars. **Hygiene** – Food poisoning caused by poor food hygiene, mould on food.

| Vocabulary | Humans-intelligent mammals. | Portion | Alcohol – a chemical substance |
|------------|---|--|---|
| | Fish - vertebrates that live in water. | Herbivores – organisms which only eat plants. | Legal and illegal drugs – drugs which are legal and safe to take in |
| | Amphibians-cold-blooded | | recommended doses, and drugs |
| | vertebrates (vertebrates have | Carnivores – organisms which only eat meant. | which are damaging to human health in any dose. |
| | backbones) that don't have scales. | eat meant. | in any dose. |
| | Reptiles - cold-blooded animals that are characterised by their scales | Omnivores – organisms which eat both meat and plants. | Tobacco – a nicotine containing plant which can be dried and smoked. |
| | and their ability to lay eggs. | Producer – organisms which make their own food from sunlight. | Obesity – when a person weighs more than what is healthy. |
| | Birds -vertebrate animals that have | | |
| | feathers, wings, and beaks. | Consumer – an organism that feeds on other organisms. | Old age – nearing the end of human life expectancy. |
| | Mammals -humans and all other | | |
| | animals that are warm-blooded | Predators – an organism which hunts another organism for food. | Heart – the organ which pumps blood around the body. |
| | vertebrates (vertebrates have | nunts another organism for food. | blood around the body. |
| | backbones) with hair. | Prey – an animal which is hunted and killed by another animal for | Blood vessels – a system of tubes running through the body to |
| | Carnivore- an organism that eats | food. | transport blood. |
| | mostly meat, or the flesh of | | |
| | animals. | Exoskeleton – an organism with a | Blood – a fluid which transports food |
| | | skeleton outside of the body. | and oxygen to organs, and takes |
| | Herbivore - an organism that mostly | Endoskeleton – a skeleton on the | waste away. |
| | feeds on plants. | inside of a body. | Nutrients – substances in food that |
| | | inside of a body. | our bodies need to function. |
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| | | Specific parts of a skeleton: | |
|--|--|--------------------------------------|--|
| | | Skull, jaw, humerus, radius, ulna, | |
| | | tibia, fibula, pelvis, femur, spine. | |
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