

Progression in Animals including Humans



National Curriculum statements in red are from other linked topics.

| Early learning goal | Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes |
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| Year 1 | Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense |
| Year 2 | Notice that animals, including humans, have offspring which grow into adults. Find out about 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. |
| Year 3 | Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat. Identify that humans and some other animals have skeletons and muscles for support, protection and movement. |
| Year 4 | Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey. |
| Year 5 | Describe the changes as humans develop to old age. Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. (Y5 - Living things and their habitats) Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats) |
| Year 6 | Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans. Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals. (Y6 - Living things and their habitats) Give reasons for classifying plants and animals based on specific characteristics. (Y6 - Living things and their habitats) |
| KS3 | Reproduction in humans (as an example of a mammal), including the structure and function of the male and female reproductive systems, menstrual cycle (without details of hormones), gametes, fertilisation, gestation and birth, to include the effect of maternal lifestyle on the foetus through the placenta. The consequences of imbalances in the diet, including obesity, starvation and deficiency diseases. The effects of recreational drugs (including substance misuse) on behaviour, health and life processes. The structure and functions of the gas exchange system in humans, including adaptations to function. The mechanism of breathing to move air in and out of the lungs. The impact of exercise, asthma and smoking on the human gas exchange system. |

Year 1 – Animals including Humans

National Curriculum Objectives:

- Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.
- Identify and name a variety of common animals that are carnivores, herbivores and omnivores.
- Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).
- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense

Pupils should use the local environment throughout the year to explore and answer questions about animals in their habitat. They should understand how to take care of animals taken from their local environment and the need to return them safely after study.

Pupils should become familiar with the common names of some fish, amphibians, reptiles, birds and mammals, including those that are kept as pets. Pupils should have plenty of opportunities to learn the names of the main body parts (including head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth, teeth) through games, actions, songs and rhymes.

Pupils might work scientifically by: using their observations to compare and contrast animals at first hand or through videos and photographs, describing how they identify and group them; grouping animals according to what they eat; and using their senses to compare different textures, sounds and smells.

| Prior Learning | | | Vocabulary |
|---|---|---|---|
| In Early Years: | Key Ideas | Suggested Activities | Head, body, eyes, |
| Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes | What are the parts of our body? What are our senses? | Label diagram / each other for each body part. Draw around pupils/colour in, label parts. Make models in playdough. Label stuffed/model/picture animals in the same way. What is the same, what is different) Match each body part to its job Play 'Simon Says' with emphasis on body parts Learn songs / rhymes to help identify parts Funnybones story – supports understanding of the skeleton. Learn songs / rhymes about senses. Play games about senses (e.g. 'Grandmother's footsteps', 'feely bag', taste testing, smell herbs & spices, coloured foods (e.g. Purple potatoes), sound / colour walks, etc) Write a story about using senses to describe. Link each sense to body parts in each activity Who has the fastest reactions? Use a number track on a meter ruler test reaction speed (drop through fingers and catch). Could line up in order to show blockchart Outdoor learning walks. Discover using different senses. Develop improved descriptive language. | ears, mouth, teeth, leg, tail, wing, claw, fin, scales, feathers, fur, beak, paws, hooves Senses, touch, see, smell, taste, hear, fingers (skin), eyes, nose, ear and tongue |
| | Are there different kinds of animal? | Explore senses in other animals Use external providers / own animal house to introduce pupils to each vertebrate group. Use external providers to show pupils exotic animals such as reptile, amphibians, invertebrates, etc. Discuss / sort pictures to show the features of each (obvious visual similarities & differences) vertebrate. 'feely box' with examples of feathers, skin, fur or real animals to identify Group plastic animal models. Use picture keys to name. Play '20 questions' / 'odd-one-out' /match sound to the animal / animal 'top-trumps' | |

| Look at DVD clips / pictures of animals eating. Discuss. Identify carnivores, herbivores & omnivores. Sorting activity. Compare plastic skulls of carnivore (dog) & herbivore (sheep) & omnivore (human). Note teeth differences (introduce words), muscle strength and eye placement. From the teeth guess what food they eat. | | | omnivores. Sorting activity. Compare plastic skulls of carnivore (dog) & herbivore (sheep) & omnivore (human). Note teeth differences (introduce words), muscle strength and eye placement. From | | |
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In Year 2:

- Notice that animals, including humans, have offspring which grow into adults.
- Find out about 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

Year 2 – Animals including Humans

National Curriculum Objectives:

Prior Learning

- Notice that animals, including humans, have offspring which grow into adults.
- Find out about 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

Pupils should be introduced to the basic needs of animals for survival, as well as the importance of exercise and nutrition for humans. They should also be introduced to the processes of reproduction and growth in animals. The focus at this stage should be on questions that help pupils to recognise growth; they should not be expected to understand how reproduction occurs. The following examples might be used: egg, chick, chicken; egg, caterpillar, pupa, butterfly; spawn, tadpole, frog; lamb, sheep. Growing into adults can include reference to baby, toddler, child, teenager, adult.

Pupils might work scientifically by: observing, through video or first-hand observation and measurement, how different animals, including humans, grow; asking questions about what things animals need for survival and what humans need to stay healthy; and suggesting ways to find answers to their questions.

Vocabulary

| THOI Learning | | Vocabulary | |
|---|--|--|--|
| In Year 1: | Key Ideas | Suggested Activities | Offspring, |
| Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a | What happens to our bodies as we grow? | Develop terms offspring, baby, toddler, child, teenager and adult. Create timeline. Pupils bring in baby pictures & pictures of them growing up. Make a display / time line. Describe changes over time & variation in class Use height/weight data for cartoon baby growing up in key stages. Draw bar charts. How does height/hand/foot spans compare across school? Measure, tabulate & chart What grows as we get older? Explore any body feature across school e.g. head span, arm length, etc; measure height over year. | reproduction, growth, child, young/old stages (examples - |
| variety of common animals that are carnivores, herbivores and omnivores. • Describe and compare the structure of a | Do other animals grow in the same way as us? | Match animals to offspring. Study key animals in detail (living or virtual) such as chicken, rabbit, butterfly, frog, sheep, etc. Short term and/or ongoing work over the year. Consider similarities & differences. Describe changes using photographs, drawings, stories, poems, etc. Could collect ongoing data. Do animals grow in the same way as we do? Measure animal growth in different ways over time e.g. length, weight. Tabulate & chart. Use own animals or farm visits (webcam, etc) Compare actual to predicted growth to monitor animal health eg dogs. Compare data. | chick/hen, baby/child/adult, caterpillar/butterfly), exercise, heartbeat, breathing, hygiene, |
| variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). Identify, name, draw and label the basic | What do we need to live and be healthy? | Make food diary (including drinks). Research healthy diet. Compare. Research foods of other animals. Compare. Hold breath (care!). What happens? Discuss snorkeling / scuba diving. Introduce balanced diet (emphasise foods which are good, 'bad' for us). Water challenge. Measure volume of own water bottle. Drink amount needed each day. Convert food diary into data eg. How many biscuits have I eaten this week? Which foods do I eat the most? How many days this week have I eaten my five-a-day? Tabulate & chart Classify foods into groups; healthy/unhealthy Which drink contains the most sugar? Chart | germs, disease, food types (examples – meat, fish, vegetables, bread, rice, pasta) |
| parts of the human body and say which part of the body is associated with each sense | Why is it important to exercise? | Explore types of exercise. Introduce 10 min new exercise into each day. Sports day using different exercises. Winner is the one that meets personal challenge. Measure heart rate in different places on body. Measure resting. Measure with exercise. Which exercise is the most fun? Why? What happens to our body when we exercise? Classify exercises into those that make us strong, fit and flexible Step challenge. Measure steps to a daily goal | |
| In Voca 2: | Why is it important to keep clean? | Talk about ways we keep clean (e.g. brushing teeth, washing, etc). Importance of washing hands. Practice technique. Take swabs from various parts of the body. Grow microbes (care!) on agarose gel/Petri dishes. Glitter hands. Try to wash off glitter. | |
| In Year 3: | | | |

identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat

| identify that humans and s | ome other animals have skeleto | ons and muscles for suppo | rt, protection and moven | nent. | |
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Year 3 – Animals including Humans

National Curriculum Objectives:

- identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
- identify that humans and some other animals have skeletons and muscles for support, protection and movement.

Pupils should continue to learn about the importance of nutrition and should be introduced to the main body parts associated with the skeleton and muscles, finding out how different parts of the body have special functions.

Pupils might work scientifically by: identifying and grouping animals with and without skeletons and observing and comparing their movement; exploring ideas about what would happen if humans did not have skeletons. They might compare and contrast the diets of different animals (including their pets) and decide ways of grouping them according to what they eat. They might research different food groups and how they keep us healthy and design meals based on what they find out.

| Prior Learning | | | Vocabulary |
|---|--|---|--|
| In Year 2: • Notice that animals, | Key Ideas | Suggested Activities | Nutrition, nutrients, |
| including humans, have offspring which grow into adults. Find out about 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 | What do animals need to eat to stay healthy? | All animals need to eat to get nutrients and energy. Introduce energy transfer model. Introduce food types. Demo: iodine test on a plant leaf to show presence of sugar (photosynthesis). Pupils do starch test with various foods. Custard bomb/burn food to show energy in food. Show pictures of animals eating. Research food for pets. Organise visit to/from vets or farm. Link to healthy schools Study food labels (simplify). Determine food types. Link size of dog to weight of food. Matching activities. Fair test: Which fruits contain the most water? | carbohydrates, sugars, protein, vitamins, minerals, fibre, fat, water, skeleton, bones, muscles, support, |
| | What is a balanced diet? | Food games & quizzes (various) to show good nutrition. 5 a day. Make a 'balanced' plate using cut out foods. Design a healthy/fun menu for a party. Discuss balanced diet. Use illustrations / magazine ideas for breakfast or lunch. Use food pyramid / labels to compare. Try lots of healthy foods. Guess the fruit (try) Classify/order foods high in food types and energy. Note foods high in eat type of food type. Tabulate. Draw as bar charts for each food. Compare. Create food diary. Tabulate/chart. Change entries / plan targets to make the diet more balanced. Design healthy meals (make). Use 'Eat well Plate' | protect, move, skull, ribs, spine, muscles, joints |
| | Why do we have a skeleton? | Functions: support, protection, movement Name & point to major bones. Card skeleton. Identify / name muscles on a skeleton picture. Relate to their own body. Draw around body. Place/name card bones on the body. Possibly explore skeletons of different animals. (Vertebrate / invertebrate / internal / external). Classify animals into those with skeletons (internal; vertebrates) and those without. Observe & describe differences in movement (e.g. observe a worm on a glass plate) Identify x-rays of bones | |
| | How do we move? | Demo: how antagonistic muscles work with 'balloons' attached to a pupil's arm. Ask pupils to apply to the leg. Label a diagram of model above to describe & explain the process. Annotate working model on poster. Make model arm by using strings for muscles to move laminated/hinged arm bones. Use to support description Compare action of limbs in other animals. | |

In Year 4:

- Describe the simple functions of the basic parts of the digestive system in humans.
- Identify the different types of teeth in humans and their simple functions.
- Construct and interpret a variety of food chains, identifying producers, predators and prey

Year 4 – Animals including Humans

National Curriculum Objectives:

- describe the simple functions of the basic parts of the digestive system in humans
- identify the different types of teeth in humans and their simple functions
- construct and interpret a variety of food chains, identifying producers, predators and prey.

Pupils should be introduced to the main body parts associated with the digestive system, for example, mouth, tongue, teeth, oesophagus, stomach and small and large intestine and explore questions that help them to understand their special functions.

Pupils might work scientifically by: comparing the teeth of carnivores and herbivores, and suggesting reasons for differences; finding out what damages teeth and how to look after them. They might draw and discuss their ideas about the digestive system and compare them with models or images.

| Prior Learning | The second of mages. | | Vocabulary |
|---|---|---|--|
| In Year 3 • identify that | Key Ideas | Suggested Activities | Digestive system, |
| animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat identify that humans and some other animals have skeletons and muscles for support, protection and movement. | Are there different types of teeth? | Compare/count own teeth with others. Identify similarities and types. Use identification key. Make teeth using carrots. Demo: Large teeth/mouth model; scissors/potato masher Introduce as start of digestion process Use wooden 'teeth' to show types. Try cutting & crushing food using different teeth. Identify structure to function. Describe action | digestion, mouth, teeth, saliva, oesophagus, stomach, small |
| | How should you care for your teeth? | Visit from a dentist. Question & answer / Watch video on care for teeth. Research. Write cartoon strip / poster to show people how to care / clean their teeth properly. Demo: brush to demonstrate correct cleaning Explore sugar in foods using food labels (demonstrate sugar by using cubes according to weight of sugar on label). Discuss healthy diet. Fair test: What happens if we don't clean our teeth? Eggs (white shell) covered / not covered in fluoride tooth paste. Placed in water or cola. Darkening likened to 'rotting' teeth. Discuss sugar/acid. Fair test: What happens if we don't clean our teeth? Use disclosing tablets to compare cleaned / uncleaned teeth Fair test: What do fizzy drinks do to our teeth? Chicken bones in vinegar, water, air. Action of acid. Explore acidic foods/drinks using litmus paper. | intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars, herbivore, carnivore, omnivore, producer, |
| | What is digestion? | Define. Model using a production line (cutting, crushing, mixing, dissolving) using food in bag/squeezed through tights. Link teeth to mechanical digestion. 'Big-picture model of the process of food break-down followed by absorption. Research digestion. Introduce enzyme but no detail. Investigate effect of saliva. Cracker/bread in dry/wet mouth. Allow time before chewing. When do you taste it? How quickly does it go sweet? Link to chemical digestion | predator, prey, food chain |
| | What are the parts of the digestive system? | Label diagram of digestive system. Jigsaw puzzles of different parts. Make system from sweets and string. Make life size system as classroom display (draw around pupil and add organs). Annotation emphasise process. Operation Ouch! Clip. Class clips BBC. U tube clips Demo: model length and parts using hose pipe and bag (stomach). Label parts. Function. Fair test: Does surface area of food effect the speed of digestion in the stomach? Cut jelly babies and dissolve in white vinegar. Time taken to dissolve | |
| | What is a food chain? | Develop 'model' of food chain. Use video clips to show feeding. Link into a food chain. Generate terminology. Role play modeling. Feeding and energy transfer Group into predators, prey (show predators can be prey) using pictures/models. Group into herbivores, carnivores, omnivores. Collect/photograph animals in local habitat. Research to find feeding profiles. Research animals in world habitats to find feeding profiles | |

| Can you construct food chains? | Food chain card games, etc. Use information to place in a food chain (develop into food webs). Research specific food chains – what can they find out? Differentiate (common / unusual). Classify plants/animals from local habitat into feeding types. Organise into food chains/webs. Place human at centre of page. From food diaries construct food chains | |
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| In Year 5: | | |

describe the changes as humans develop to old age.

Year 5 – Animals including Humans

National Curriculum Objectives:

• describe the changes as humans develop to old age.

Pupils should draw a timeline to indicate stages in the growth and development of humans. They should learn about the changes experienced in puberty.

Pupils could work scientifically by researching the gestation periods of other animals and comparing them with humans; by finding out and recording the length and mass of a baby as it grows.

| Prior Learning | | V | |
|---|---|--|---------------------------------|
| In Year 4: • describe the simple | Key Ideas | Suggested Activities | Vocab to be decided |
| functions of the basic parts of the digestive system in humans identify the different | What happens as we get older? | Pupils draw themselves from a baby to an adult. Annotate changes they think occur. Rich questions: How tall/heavy do you think you will be? What makes you grow taller/heavier? Will you grow taller/heavier for ever? Do people get shorter/lighter? How/when do you notice you are growing? Use appropriate DVD (BBC Bitesize) | alongside PSHE puberty topic |
| types of teeth in humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey. | What happens to our bodies as we get older? | Recall names of bones. Introduce human life cycle to introduce terminology. Stick pictures/diagrams into a cycle. Annotate. Understand change is inevitable / ongoing Compare & contrast to animal life cycles (model). Survey: What happens to bone length as we get older? Compare pictures of people/x-ray skeletons. Measure Survey: Do different parts of our bodies grow at different speeds? Head/hand span, leg/arm length, foot size, etc to investigate. Choose sample size. Use family members of different ages. | |
| | What are our reproductive organs? | Use diagrams and label cards to explore pupils own knowledge. Correctly label. Practice learning names (discuss learning strategies). Introduce sex cells (gametes). Draw diagrams & label/annotate. Link back to place in reproductive cycle (model) | |
| | What happens during puberty? | Same, yet different. Explore similarities and differences between girls and boys (Venn diagram activity) Use key texts. Analyse language, process and effects on characters, etc. Explore physical / emotional change. Describe physical changes to the body in both males and females. Annotate diagrams to describe. Understand change happens at different times / speeds. Use appropriate DVD (e.g. Changing Bodies); leaflets Discuss physical (e.g. acne, hygiene) and emotional changes. Link back to place in reproductive cycle (model) Talking objects. Phone, diary, ring, bra, make-up, deodorant, valentine's card, shaving foam, spot cream, razor, sanitary towels, etc. Use to describe feelings and behaviour changes. Devise strategies for managing change. Could use concept cartoons for each to explore feelings and strategies. Role play scenarios / draw comic strip | |
| 1 | Where do babies come from? | Treat this lesson with care & sensitivity. Contexualise. Order cards to sequence events in process. Link to information cards. Could use true/false cards. Use appropriate DVD. Discuss moral/social/cultural aspects. Use information cards for pupils to select to answer questions. Could use true/false statements Link back to place in reproductive cycle (focus on fertilization) | |

In Year 6:

- · identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- describe the ways in which nutrients and water are transported within animals, including humans

Year 6 – Animals including Humans

National Curriculum Objectives:

- identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- describe the ways in which nutrients and water are transported within animals, including humans

Pupils should build on their learning from years 3 and 4 about the main body parts and internal organs (skeletal, muscular and digestive system) to explore and answer questions that help them to understand how the circulatory system enables the body to function.

Pupils should learn how to keep their bodies healthy and how their bodies might be damaged – including how some drugs and other substances can be harmful to the human body.

| rior Learning | | | Vocabulary |
|---------------------------------|---|--|---|
| Year 5: • describe the changes | Key Ideas | Suggested Activities | Heart, pulse, rate, |
| as humans develop to old age | Do you know where your main organs are in the body? | Research Match pictures (organs) with function cards. Create information table. Emphasise that all organs/muscles need nutrients, oxygen and make waste. Role of blood system. Compare/contrast with other animals including invertebrates. Focus on similarities. Label and annotate (function) cut-out diagram of the human body organs. Draw around person. Make organ shapes for display (advanced organiser). Emphasise position of heart. | pumps, blood, blood vessels, transported lungs, oxygen, carbon dioxide, |
| | Why do we have blood? | Use standing sample blood to demonstrate components (plasma; red/white blood cells; platelets. limited details). Use pictures to show actual components. Colour/annotate diagram of circulatory system. Explain oxygenation/deoxygenation Raining blood! (mix food dye + veg oil; float on water) explain effects. Review dissolving. Make mock blood samples from red sweets, marshmallows, rice and water (yellow food colouring). Mix in exact proportions for maths link. | nutrients, water, muscles, cycle, circulatory system, diet, exercise, drug |
| | How does blood get around our body? | Annotate diagram of double circulation (model). Basic understanding of pressure differences & gas/nutrient exchange Demo: Show an actual heart with vessels attached. Dissect to show chambers; Show artery/vein to explain differences. Make a model heart (washing-up bottle with long clear tube held vertical). Half fill will red coloured water. Squeezing bottle (shows power of heart). Role play to show double circulation 'big-picture' model | and lifestyle |
| | What happens when we exercise? | Fitness tests (e.g. bleep test, vertical jump test, etc). Can be tabulated. Repeats. Explain changes when we exercise (e.g. fatigue, sweating). Devise a fitness programme. Carry it out over the term. Record changes in pulse/recovery/breathing rate over time. Demo: Measuring pulse (neck/wrist); measure pulse with a straw (pushed into plastacine; place on wrist); show resting pulse rate; listen to heart rate through plastic cup Fair test: What happens to our pulse rate when we do different exercises? Use pulse sensor during exercise Fair test: How quickly do we recovery after harder and harder exercise? Use different numbers of squat thrusts. Could compare recovery rate across class. Fair test: What happens to our breathing rate/volume when we exercise? Measure over time Fair test: What happens when we exercise? Cobalt chloride paper for sweat; pulse; breathing rate; fatigue during exercise (care!) | |
| | What are the effects of diet, drugs & lifestyle? | Create food diary. Discuss implications and ways forward. Design poster / advise sheet Sort illegal / legal; recreational / prescription; harmful / harmless drugs. Discuss. Discuss effects of alcohol / smoking. Design poster / advise sheet. YouTube experiments Fair test: What is the effect of coffee on reaction time? Catch a falling meter ruler Sort food labels/pictures to identify sugary/fatty/high energy foods. Washing line | |

- Reproduction in humans (as an example of a mammal), including the structure and function of the male and female reproductive systems, menstrual cycle (without details of hormones), gametes, fertilisation, gestation and birth, to include the effect of maternal lifestyle on the foetus through the placenta.
- The consequences of imbalances in the diet, including obesity, starvation and deficiency diseases.
- The effects of recreational drugs (including substance misuse) on behaviour, health and life processes.
- The structure and functions of the gas exchange system in humans, including adaptations to function.
- The mechanism of breathing to move air in and out of the lungs.
- The impact of exercise, asthma and smoking on the human gas exchange system.