



tigtag 

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Video List

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Introduction

Each unit contains a minimum of two core videos and a number of shorter supplementary videos. These shorter videos come in different formats.



What happens next?: A short section of video is played and the children have to guess what happens next.



Odd one out: The children have to work out which of four images is the odd one out.



Clip: A short video that extends the learning beyond the curriculum.



True or false?: The children have to determine if a statement is true or false.



Did you know?: A fascinating fact is revealed.



Big reveal: The image zooms out from an extreme close-up to full frame. The children have to guess what the image is.



Pixelate: A pixelated image unscrambles. The children have to guess what it is.



Jigsaw puzzle: An image is slowly revealed as pieces of the jigsaw puzzle are removed. The children have to identify it.



What's that noise?: The children have to identify an object from its sound alone.



Spot the...: The children have to identify which objects belong in the group.



Physical processes: Light



What is light?

What is light?	Explanation that light is a form of energy that allows us to see.
Light sources	Differentiating between light sources and light reflectors.
Clip	Find out about a particularly fascinating light source. Why do glowworms produce their own light?
Spot the...	Six images are shown on screen, four of them are light sources – can you spot them?
Big reveal	What is it? It's the Moon!
True or false?	A light shone in your eyes can cause damage – true or false?

Light sources

Prehistoric night	Discover how the lives of humans were transformed by the invention of the electric light bulb.
History of the lighthouse	Explore the history of lighthouses.
True or false?	Light travels in zigzags – true or false?
Pixelate	What is it? It's a swarm of fireflies!
Clip	Witness the aurora – a beautiful light display.
Odd one out	Four different light sources are shown, but which is the odd one out?

Shadows

Cat and mouse shadows	Learn that shadows change size as the angle of a light source changes.
Spot the shadows	Understand how shadows are formed and find out what types of materials produce shadows.
Jigsaw puzzle	What is it? These are shadows of people!
Clip	A montage of clips showing a variety of shadows demonstrates that shadows are created by opaque objects.
Spot the...	Six different objects are shown, three of them are opaque – can you spot which ones?
What happens next?	The Sun appears to move in the sky over a field of cacti – what happens next?





Physical processes: Light



The Sun as a light source

The Sun and shadows	Investigate why shadows change size during the day.
Total solar eclipse	Find out what causes a total solar eclipse.
Big reveal	What is it? It's the Sun!
Odd one out	Four different images of shadows are shown on screen, but which is the odd one out?
Did you know?	Sound doesn't travel through the vacuum of space. Did you know that the Sun produces vibrations and if they could travel through space they would be too low-pitched for us to hear?
True or false?	Light takes eight and a half minutes to travel from the Sun to our planet – true or false?

Reflection

What is a reflection?	Understand that reflection is light bouncing off a surface.
Cat's eyes	Discover how British inventor Percy Shaw came up with the idea of Cat's Eyes.
Still	A spectacular still image of a mountain and its reflection on a lake.
Clip	When we landed on the Moon in 1969 we left behind some mirrors – discover why.
Spot the...	Six different objects are shown, four of them are reflective surfaces – can you spot them?
What happens next?	Light is focused on to an object – what happens next?

White light

Why is the sky blue?	Find out why the sky is blue.
What is a rainbow?	Understand how rainbows are formed.
Big reveal	What is it? It's a prism refracting light!
Clip	There are many types of light we cannot see – find out how special cameras can detect infrared light.
Spot the...	Six different images are shown on screen, three of them refract light – can you spot them?
What happens next?	Light is shone through a glass prism – what happens next?





Physical processes: Sound

What is sound?

Vibrations	Dive into alligator-infested water to understand how vibrations enable these reptiles to communicate.
Sound is energy	Understand that sound is a form of energy created by vibrations.
Big reveal	What is it? These are donkey ears!
Did you know?	Did you know that the Saturn V rocket launch produced one of the loudest sounds ever recorded?
Spot the...	Six different clips are shown, four of them are examples of sources of sound – can you spot them?
What's that noise?	What's that noise? It's a volcanic eruption.

How does sound travel?

How do sounds travel?	Find out that sound waves always need a medium to travel through.
Why is there no sound in space?	Find out why there is no sound in space.
Jigsaw puzzle	What is it? It's a bat!
Clip	Discover how some animals use reflected sound known as echolocation to navigate.
Odd one out	Four different locations are shown, but which is the odd one out?
What happens next?	A ringing alarm clock is placed within a vacuum chamber – what happens next?

How do we hear?

Journey through the ear	Discover how ears enable us to hear.
Ultrasound	Learn how dolphins use ultrasound to communicate.
Big reveal	What is it? It's an ear!
Clip	Meet the amazing bird that can mimic nearly any sound that it hears!
Odd one out	Four different parts of the body are shown, but which is the odd one out?
What's that noise?	What's that noise? It's an egg frying.



Physical processes: Sound



Changing pitch

Tuning an orchestra	Musicians can tune their instruments to change the pitch of a sound.
Infrasound	Find out about infrasounds – sounds that are too low-pitched to be heard by humans.
Big reveal	What is it? It's a piano!
Did you know?	Did you know that a person singing at the right frequency at a high volume can cause a glass to shatter?
Spot the...	Six different clips are shown, two of them containing examples of high-pitched sounds – can you spot them?
What's that noise?	What's that noise? It's a marsh frog.

Volume

Howler monkeys	Meet the howler monkey – the loudest animal on land.
Sonic boom	Fascinating insight into the sonic boom created when a jet plane breaks the sound barrier.
True or false?	Light travels in zigzags – true or false?
Pixelate	What is it? It's a church bell!
Did you know?	Did you know that the blue whale is so loud that its calls can be heard underwater for hundreds of kilometres?
Spot the...	Six different clips are shown, three of them containing examples of low-energy sounds – can you spot them?
What's that noise?	What's that noise? It's a peacock.

Dangers of sound

Noise pollution	Find out what it's like living next to an airport and how the problem of noise pollution can be tackled.
Hearing loss	Discover how exposure to high-volume sounds can damage hearing.
Jigsaw puzzle	What is it? These are ear protectors!
Did you know?	Some hearing loss happens naturally with age. Did you know that a hearing aid can detect and increase the volume of sound?
Odd one out	Four different materials are shown, but which can absorb the most sound?
What's that noise?	What's that noise? It's a pneumatic drill.

Physical processes: Electricity and magnetism



Electricity

What is electricity?	Explore in simple terms what electricity is, how it is created and how it travels to our homes.
Hydroelectric power station	Discover how flowing water can create electrical energy.
Jigsaw puzzle	What is it? These are electricity pylons!
Clip	Discover who makes sure the electricity stays switched on in our homes.
Odd one out	Four electrical devices are shown, but which is the odd one out?
What's that noise?	What's that noise? It's a vacuum cleaner!

Conductors and dangers of electricity

Conductors and insulators	Find out what the difference is between a conductor and an insulator.
The dangers of electricity	Find out what happens to a farmer who accidentally becomes part of an electrical circuit.
Lightning	Discover that lightning is a form of static energy.
Still	A dramatic still image of lightning.
Did you know?	Did you know that electricity is used to save lives? A small electric shock to a heart that has stopped beating can restart it.
Odd one out	Four different materials are shown, but which is the odd one out?
True or false?	Water can conduct electricity – true or false?

Electrical circuits

Circuit symbols	Learn to identify universal circuit symbols.
Eiffel Tower	Discover that the lights of the Eiffel Tower form part of an electrical circuit.
Big reveal	What is it? It's a battery!
Did you know?	Did you know that the force or push of an electric current is measured in volts?
Spot the...	Six symbols are shown on screen, but only four are real circuit symbols – which ones?
True or false?	A toy can run forever on one set of batteries – true or false?



Physical processes: Electricity and magnetism



Series and parallel circuits

Robots	Investigate why robots need parallel circuits to work properly.
Series circuits	Understand that in a series circuit all the components are in a single path.
Pixelate	What is it? It's a computer chip!
Did you know?	Did you know that the first computer was so big it filled an entire room?
Spot the...	Six circuit diagrams are shown – only three of them are series circuits, but which ones?
What happens next?	Two bulbs are added to a series circuit – what happens next?

Magnetism

Magnetism	Find out how magnetic and nonmagnetic materials can be separated at a junkyard using a giant magnet.
Migratory birds	Find out how migratory birds can use the Earth's magnetic field to help them navigate.
Pixelate	What is it? It's a magnet!
Did you know?	Did you know that when a coil of metal moves within a magnetic field it produces electricity?
Odd one out	Four different materials are shown, but which is the odd one out?
What happens next?	The identical poles of two magnets are pushed together – what happens next?

Using magnetism

Compass	Discover how a compass works and why the needle always points north.
Maglev train	Find out how electromagnets power the world's fastest train.
Jigsaw puzzle	What is it? It's a compass!
Clip	Discover how magnets have helped us to navigate the globe.
Odd one out	Four different people are shown, but who does not rely on magnetism to find their way?
True or false?	All metals are magnetic – true or false?



Physical processes: Energy and energy transfer

What is energy?

What is energy?	Discover that energy comes in many different forms.
Human power plant	A team of cyclists attempts to provide all the power needed for a house for one day.
Pixelate	What is it? It's a power plant!
Did you know?	Energy in food is measured in Calories, but do you know just how much energy is in one Calorie?
Spot the...	Six clips are shown on screen – can you spot the examples of energy transfer?
True or false?	Sound is a form of energy – true or false?

Storing energy

Windup radio	Discover what powers a windup radio.
Sloth vs cheetah	The sloth and the cheetah have very different energy needs, and this is reflected in their diets.
Jigsaw puzzle	What is it? These are rechargeable batteries!
Did you know?	Did you know that fossil fuels were formed when the dinosaurs roamed the Earth?
Odd one out	Four different objects are shown, but which is the only one that does not store energy?
What's that noise?	What's that noise? It's a steam train.

The Sun as our main source of energy

Fuels	Learn all about fossil fuels and how the energy they contain originally came from the Sun.
Pancakes	We all love eating pancakes, but did you know they contain a secret ingredient – sunshine?
Did you know?	Did you know that the waxy monkey frog has an ingenious way of protecting itself from the Sun's light?
Odd one out	Four different organisms are shown, but which is the only one that does not store energy?
True or false?	Fossil fuels are made in a factory – true or false?
Big reveal	What is it? These are solar panels!



Physical processes: Energy and energy transfer

Energy transformation

Asteroid	Find out the different ways an asteroid's energy is transformed when it crashes into a planet.
Race cars	Find out how energy can be wasted as heat energy when a race car brakes.
Still	A stunning still image of a Newton's cradle.
Clip	Find out how potential energy is stored and used from the example of a match.
Spot the...	Six clips are shown on screen – four of them show types of energy – which ones?
True or false?	Energy is created and destroyed – true or false?

Heat and temperature

Heat energy	Discover that heat energy can turn a solid metal into liquid.
Body temperature	An insight into how our bodies maintain a constant internal temperature – no matter the temperature of the surroundings.
Big reveal	What is it? It's rice steaming!
Did you know?	Did you know that heat and temperature are different things?
Odd one out	Four processes that involve objects changing shape are shown, but which is the odd one out?
True or false?	Heat is measured in degrees Celsius – true or false?

Heat transfer

Heat transfer	Investigate the different ways in which heat energy can be transferred between objects.
Iguanas	Journey to the Galapagos to see how cold-blooded iguanas keep themselves warm.
Big reveal	What is it? It's a red-hot poker!
Did you know?	Did you know that wooden or plastic utensils are used when cooking food because they are insulators?
Odd one out	Four different materials are shown, but which is the only one that is not an insulator?
What happens next?	A Bunsen burner heats up the end of a metal rod – what happens next?



Physical processes: Force and motion



What is force?

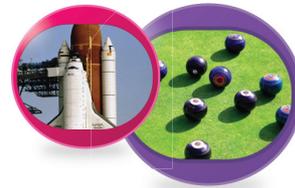
Velodrome	Discover the different types of motion.
What is a force?	Gain understanding that although we cannot see forces, we can see their effects all around us.
Jigsaw puzzle	What is it? It's a crushed plastic bottle!
Did you know?	Did you know that force is measured in Newtons? Find out how much force is required to move an object with a mass of 100kg.
Odd one out	Four examples of actions that change the shape of objects are shown – but which is the odd one out?
What happens next?	The rope tying a slingshot to the ground is released – what happens next?

Friction

What is friction?	Without this force, it would be a very slippery world!
Skydiving	Find out how air resistance allows skydivers to land safely even from the greatest heights.
Big reveal	What is it? It's a parachute!
Clip	How do birds land on water? Discover how they create and use resistance in order to slow and stop on water.
Odd one out	Four different surfaces are shown, but which is the odd one out?
True or false?	Friction generates heat – true or false?

Gravity

What is gravity?	Find out how gravity affects our everyday life.
Mass	What is the difference between mass and weight?
Gravity in our universe	Discover that gravity is the force that keeps our solar system together.
Jigsaw puzzle	What is it? It's a ski jumper!
Did you know?	Did you know that Sir Isaac Newton was the first person to write about Earth's gravitational pull?
Spot the...	Six different objects are shown – can you spot which has the strongest gravitational pull?
True or false?	The Moon has a greater gravitational pull than the Earth – true or false?



Physical processes: Force and motion



Reducing friction

Streamlining	Discover how streamlining can reduce an object's air or water resistance.
Glaciers	How does water help enormous glaciers move downhill?
Pixelate	What is it? It's a gannet diving!
Did you know?	Did you know that the constant flow of water reduces friction and makes you go faster down waterslides?
Odd one out	Four modes of transport are shown, but which is the odd one out?
What's that noise?	What's that noise? It's a skateboard.
Did you know?	A force can make an object change position. Did you know that speed is the rate of motion?

Action and reaction

Space rockets	Find out how rockets shoot into space at amazing speeds.
Opposing forces	Opposing forces are at work all the time, even when you aren't moving!
Isaac Newton	Find out how Sir Isaac Newton devised his laws of motion and explained how the Universe works.
Pixelate	What is it? It's a tug of war!
Clip	Find out how the lack of air resistance within the vacuum of space is an important factor in space exploration.
Spot the...	Six different clips are shown, five of them showing examples of balanced forces – can you spot which ones?
True or false?	Unbalanced forces cause an object to change speed – true or false?

Gears and pulleys

Lever	Investigate how levers make work easier.
How the Egyptians built the pyramids	Discover how a simple system of pulleys helped the Egyptians build some of the wonders of the world.
Cycling to school	Discover how bike gears make pedaling easier.
Jigsaw puzzle	What is it? It's a pulley!
Did you know?	Did you know that a seesaw, a wheelbarrow and a fishing rod have something in common? They are all types of lever.
Spot the...	Six different clips are shown, five of them showing examples of the use of pulleys – can you spot them?
True or false?	Gears give a mechanical advantage – true or false?



The solar system	
Rocky planets	Adventure around our solar system and explore the four rocky planets.
Gas giants	Take a journey around our solar system and meet the gas giants.
Life on Earth	Discover why Earth is the only planet where life is known to exist.
Big reveal	What is it? It's Jupiter!
Clip	Find out why the Earth's path of orbit is known as the Goldilocks Zone.
Spot the...	Six planets are shown on screen – but can you spot the rocky planets?
True or false?	Earth is the closest planet to the Sun – true or false?

Sun, Earth and Moon	
Night and day	Find out why our planet spends half its time in darkness and the other half bathing in sunlight.
Leap year	Why do we have a leap year once every four years?
Jigsaw puzzle	What is it? It's a sunset!
Did you know?	Did you know that there are at least 146 moons within our solar system?
Odd one out	Four different dates are shown on screen – but which is the odd one out?
True or false?	The Sun is at the centre of our solar system – true or false?

Beyond our solar system	
The Big Bang	What existed before the Universe began?
Hubble Space Telescope	Witness how the Hubble Space Telescope is taking us on an incredible voyage of discovery, helping us to understand how everything in the Universe formed.
Constellations	Take a trip across the night sky and find out about the constellations.
Clip	Find out why light from dead stars is still visible in the night sky.
Clip	Discover the billions of Sun-like stars outside our solar system.
Big reveal	What is it? It's the Andromeda Galaxy.
Odd one out	Four astronomical objects are shown on screen, but which is the only one that is not a constellation?

Physical processes: The Earth and beyond



The Moon

Phases of the Moon	Learn all about the different phases of the Moon.
The grunion fish	Meet the grunion fish, an ordinary-looking fish whose extraordinary life is ruled by the phases of the Moon.
The first Moon landing	The story of how three men made history when they became the first men to journey to the Moon.
Big reveal	What is it? It's a crater on the Moon!
Did you know?	Did you know that the Moon is completely dark when the Earth blocks the Sun's light?
Odd one out	Four phases of the Moon are shown on screen, but which one is not part of the lunar calendar?
True or false?	The Moon orbits the Earth – true or false?

Seasons

The seasons	Find out how the tilt of the Earth's axis causes the seasons.
Grizzly bears	Investigate how the life of grizzly bears is influenced by the seasons.
Pixelate	What is it? These are autumn leaves!
Clip	Find out why the equator doesn't experience seasons like other parts of the planet.
Spot the...	Six animals are shown on screen – can you spot the hibernators?
True or false?	All trees lose their leaves over winter – true or false?



Physical processes: The Earth and beyond



Water and weather

Water cycle	Learn all about the Earth's water cycle.
Meteorologists	Understand how meteorologists can predict the weather.
Pixelate	What is it? It's rain on a puddle!
Did you know?	Did you know that a third of the Earth's land is classed as desert?
Odd one out	Four processes are shown on screen, but which one is not a part of the water cycle?
What's that noise?	What's that noise? It's an avalanche.

The Earth's layers

The Earth's layers	Journey to the centre of the Earth.
Earthquakes	Investigate why earthquakes happen.
Galapagos volcanoes	Discover that the Galapagos Islands were formed from volcanic eruptions.
Big reveal	What is it? It's lava!
Clip	Discover how water erosion shapes Earth's landscape and how the Grand Canyon formed millions of years ago.
Odd one out	Four of Earth's parts are shown on screen, but which one is not one of Earth's layers?
True or false?	Mount Everest is growing – true or false?



Life processes: Green plants



Parts of a plant

Parts of a plant	Learn all about the parts of a plant.
Giant redwoods	The tallest trees on Earth have an amazing system to circulate water and nutrients.
Pixelate	What is it? It's a tree trunk!
Did you know?	Did you know that most (but not all) plants need leaves to obtain food.
Odd one out	Four objects are shown, but which one is not part of a plant?
True or false?	Some flowers only bloom at nighttime – true or false?

Plant growth

Life cycle of an oak tree	Do you know how many years an oak tree can live for?
Germination	Learn all about plant germination and the conditions that can affect its success.
Jigsaw puzzle	What is it? It's a seedling!
Clip	Seen how destructive forest fires can be helpful to the plant world by aiding plant growth.
Odd one out	Four examples of physical processes are shown, but which one is not necessary for germination?
True or false?	Bamboo is the slowest-growing plant in the world – true or false?

Reproduction in flowering plants

Pollination	Discover the strategies different plants have for pollination.
Parts of a flower	Are flowers male or female? They're both!
Crafty orchids	Orchids have very clever ways of ensuring they reproduce.
What's that noise?	What's that noise? It's a hummingbird.
Still	A still image of pollen in the wind.
Did you know?	Did you know that insects pollinate plants?
Odd one out	Four plants are shown, but which one is not pollinated by wind?

Life processes: Green plants



Fertilization and dispersal

Fertilization	Find out what happens during plant fertilization.
The nutcracker	How can a bird that eats a plant's seeds actually help the plant survive?
Big reveal	What is it? It's a coconut!
Clip	Find out why the Alsomitra is one of the best seed dispersers in the plant world.
Spot the...	Six animals are shown on screen. Some of them are dispersers, but which ones?
True or false?	Some plants can disperse their seeds explosively – true or false?

Plant uses

Photosynthesis	Plants have the amazing ability to make their own food, but how do they do it?
The willow	Over 50% of the world's medicine comes from plants, including aspirin from the willow tree.
Big reveal	What is it? These are apples!
Did you know?	Now rubber is mostly made in factories, but did you know it traditionally came from trees?
Spot the...	Six goods are shown on screen. Some of them are plant products, but which ones?
True or false?	Only humans use plants as medicine – true or false?

Plants and their environments

Plant adaptations	What do plants and animals have in common?
Defensive plants	Plants have many adaptations that protect them from hungry predators.
Pixelate	What is it? It's a cactus!
Clip	Although weeds may be irritating to some, they must be given credit for how well they can grow in harsh environments.
Odd one out	Four plants are shown, but which is the one that is not a carnivorous plant?
True or false?	All plants have a pleasant smell – true or false?





The circulatory system	
Heart transplant	The story of one man's lifesaving heart transplant operation.
The heart	Explanation of the circulatory system.
Did you know?	Did you know that veins, arteries and capillaries carry blood all over your body? But how much of them does your body actually need?
Odd one out	Four parts belonging to systems within the human body are shown, but which is the odd one out?
What's that noise?	What's that noise? It's a heartbeat during exercise.
Still	A stunning still image of a red blood cell.

The human skeleton	
Function of the skeleton	Find out why your skeleton is one of your most important organs.
Allosaurus	How fossilized bones have allowed paleontologists to unlock the story of an Allosaurus's life.
Jigsaw puzzle	What is it? It's an X-ray of a hand!
Clip	The leg bones are said to be stronger than concrete. Do you know the names of the bones in your leg?
Odd one out	Four bones belonging to the human skeleton are shown, but which is the odd one out?
True or false?	Giraffes have more bones in their neck than humans – true or false?
Clip	Find out how the human skeleton evolved to allow us to walk on two legs.

Joints and muscles	
Amazing muscles	Which uses more muscles: smiling or frowning?
Ball and socket joints	What do a baseball player's shoulder and a dolphin's flipper have in common?
Pixelate	What is it? It's a tongue!
Clip	Your body uses many muscles outwith your control to keep it functioning properly. Your iris is one such involuntary muscle.
Odd one out	Four joints found in the human body are shown, but which is the odd one out?
True or false?	When we sleep our muscles stop moving – true or false?

Life processes: Body systems



The digestive system

Food's incredible journey	Follow the incredible journey of food inside the body.
The intestines	Case study of the role of the intestines in digestion.
Big reveal	What is it? It's the intestine!
Did you know?	Did you know that parent birds often carry back food for their young in their beaks and mouths – some go even further in helping their young feed.
Odd one out	Four organs found in the human body are shown, but which one is not part of the digestive system?
True or false?	Sloths only go to the bathroom once a week – true or false?

The respiratory system

Follow a human breath	Follow the journey of a human breath.
How does a fish breathe?	Find out how fish breathe underwater.
Big reveal	What is it? These are the gills of a shark!
Clip	Find out why the sperm whale can dive deeper than any other mammal in order to hunt.
Odd one out	Four sea creatures are shown, but which is the odd one out?
True or false?	Humans can hold their breaths for a maximum of two minutes – true or false?

The brain and body

The nervous system	Learn all about the function of the brain and the nervous system.
Body systems	Find out how our body systems are interrelated.
Touch	Case study of the sense of touch.
Pixelate	What is it? It's an eyeball!
Clip	There are five basic tastes our tongues can detect. Can you name them all?
Spot the...	Six images are shown on screen. Four of them represent human senses, but which ones?
True or false?	The human brain uses up 20% of the body's oxygen supply – true or false?





Diet and exercise	
Balanced diet	Discover the key to a balanced diet.
Obesity	Obesity is a condition that can affect animals and humans.
Odd one out	Four foodstuffs are shown, but which one is not a source of protein?
Jigsaw puzzle	What is it? It's a fat cell!
Clip	Hummingbirds are extremely active animals. Learn how they manage to fuel their busy lifestyles.
True or false?	Exercise is bad for the brain – true or false?

Humans' and other animals' needs	
What every animal needs	All animals have the same basic needs. Find out what they are.
Why don't some animals have ears?	Do animals like snakes and grasshoppers have ears?
Star-nosed mole	Discover the most unusual nose in the animal kingdom!
Pixelate	What is it? It's a termite mound!
Did you know?	All animals need food, water, shelter and oxygen. Did you know that different animals need different amounts of space?
Spot the...	Six images are shown on screen. Four of them are shelters, but which ones are not?
True or false?	Frogs drink water – true or false?

Teeth	
Function of teeth	Why do we have teeth and how are they different to those of other animals?
Healthy teeth	Top tips for keeping your teeth healthy.
The mystery of the narwhal tooth	The narwhal is known as the “unicorn of the ocean” – but what exactly is that horn for?
Big reveal	What is it? These are false teeth!
Did you know?	Did you know that sharks can grow an endless supply of teeth?
Odd one out	Teeth from four different animals are shown, but which are the odd ones out?
What's that noise?	What's that noise? It's someone eating an apple.



Reducing the spread of disease

The spread of disease	Discover how a disease can spread from person to person.
The common cold	Everybody catches a cold at some point in life – but how do they get infected?
Big reveal	What is it? These are white blood cells!
Clip	Animals can get diseases too. See how an ant colony deals with a deadly fungus.
Odd one out	Four types of ailment are shown, but which one is not a disease?
True or false?	A sneeze can travel at 60km per hour – true or false?

Microorganisms

What is a microorganism?	Microorganisms live everywhere on Earth, but what are they and how do they affect humans?
What lives on our skin?	Your skin is covered in microorganisms.
Jigsaw puzzle	What is it? It's cheese!
Did you know?	Can you guess what the first organism to ever exist was?
Odd one out	Four products are shown, but which one is not made using microorganisms?
True or false?	Life on Earth could not exist without microorganisms – true or false?

Drug awareness

Dangers of smoking	Why do so many people smoke when the risk to their health is so high?
What is a drug?	Drugs are used in many situations – but how do we classify a drug?
Pixelate	What is it? These are coffee beans!
Did you know?	Did you know that legal drugs are not available to everyone.
Odd one out	Four beverages are shown, but which of them does not contain a drug?
True or false?	All drugs are harmful to health – true or false?



Life processes: Living things in their environments

Habitats	
What is a habitat?	Find out what a habitat is.
Life underground	Discover why the soil makes a surprisingly good habitat.
Pixelate	What is it? It's a coral reef!
Clip	Find out how sunfish and seagulls work together to survive.
Spot the...	Can you spot the habitats?
What's that noise?	What's that noise? It's the sound of the rainforest.

Role of the environment	
In the shadow of a volcano	Learn about the surprising benefits a volcanic eruption can bring to an environment.
The Arctic tundra environment	Find out how Arctic foxes survive in the cold tundra environment.
Jigsaw puzzle	What is it? It's a desert!
Clip	Why do the leaves of deciduous trees turn red and fall off every winter?
Odd one out	Four disasters are shown, but which is the only one that is not a natural disaster?
True or false?	Penguins always live in an icy environment – true or false?

Adaptation	
Adaptation	Discover the incredible ways in which animals and plants adapt to their environments.
Snub-nosed monkey	Case study of the adaptations of this unique and fascinating monkey.
Charles Darwin	Find out how Charles Darwin changed the world!
Still	A still image of giraffes.
Did you know?	Find out how anglerfish attract food in the deep, dark ocean.
Odd one out	Four camouflaged creatures are shown, but which is the odd one out?
What's that noise?	What's that noise? It's a bird of paradise.



Life processes: Living things in their environment

Food chains

Food chain	Find out how energy flows up a food chain.
Sharks and fur seals	Case study of the food chain of sharks and fur seals.
Jigsaw puzzle	What is it? It's a lion!
Did you know?	Did you know that dung beetles decompose waste products, making them an important part of the food chain?
Odd one out	Four Arctic animals are shown, but which is the odd one out?
What happens next?	Leaves fall to the forest floor, but what happens next?

Food webs

Butterfly's breakfast	Explanation of a food web.
Sea otters	The vital role of sea otters in maintaining a food web.
Pixelate	What is it? It's a great white shark!
Did you know?	You've heard of herbivores and carnivores, but do you know what an omnivore is?
Odd one out	Four birds are shown, but which one is not carnivorous?
What happens next?	What do think would happen if a cricket stumbled into the territory of a gladiator spider?

Obtaining food

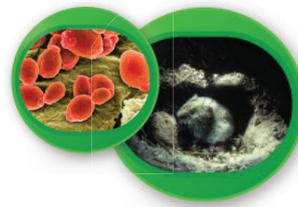
Farming food	How humans and some animals, such as ants, farm food to maintain their food supplies.
Great flood of the Kalahari	Once a year the Kalahari desert floods, enabling life to flourish.
Pixelate	What is it? It's a wheat field!
Clip	Find out why bubbler crabs have an interesting way of finding food and dealing with waste.
Spot the...	Six kinds of animals are shown on screen. Three of them are predators, but which ones?
True or false?	Some whales use bubbles to obtain food – true or false?



Life processes: Living things in their environment

Evolution

Natural selection	What is natural selection and how does it work?
Evolution	Find out how earwigs, elephants, poppies and flamingos are all related!
Charles Darwin	Find out how Charles Darwin changed the world!
Clip	Take a closer look at a lizard that's evolving right before our eyes.
Spot the...	Six images are shown onscreen. Can you spot the animals that evolved from dinosaurs?
True or false	True or false – the ancestors of whales used to have legs?
Jigsaw puzzle	What is it? It's a trilobite fossil!



Life processes: Living processes

Cells

What is a cell?	Every organism is made up of cells, but what exactly is a cell?
The human cell	Go back to the beginning of your life and find out how you were created.
Still	A still image of a cross section of a plant stem.
Clip	Discover the amoeba – a single-celled organism that can do everything necessary to live.
Odd one out	Four parts of organs are shown, but which is the odd one out?
True or false?	All cells have a nucleus – true or false?

Living things

Living things	Some robots can be very lifelike, but what makes something alive?
Mudskippers	Meet the very unusual mudskipper fish, which can walk on land.
Pixelate	What is it? These are goosebumps!
Clip	Find out about the extraordinary life cycle of the Pilobolus fungus.
Spot the...	Six images are shown on screen. Four of them are living things, but which ones?
What's that noise?	What's that noise? It's a wolf.

Reproduction

Reproduction	Reproduction takes place in all living things, but what do we mean by reproduction?
Breeding silver foxes	In the 1960s, silver foxes were bred in Siberia as an experiment in behavior. What did this experiment show?
Acquired characteristics	You might be born with some characteristics, but there are others that have to be acquired.
Jigsaw puzzle	What is it? These are identical twins!
Did you know?	Did you know that the seahorse is the only male animal that gives birth to its young?
Spot the...	Six creatures are shown on screen. Three of them have inherited characteristics, but which ones?
What's that noise?	What's that noise? It's an elk.

Life processes: Living processes

Excretion

What is excretion?	All living things need to excrete, but what do we mean by this?
Why is urine yellow?	Urine is a waste product produced by humans and animals. Why is it yellow?
Big reveal	What is it? These are the kidneys!
Did you know?	Did you know that baby koalas have a habit of eating their mothers' dung? Find out why.
Odd one out	Four waste products are shown, but which is the odd one out?
True or false?	The human body sheds thousands of skin cells every day – true or false?

Life cycles

What is a life cycle?	Humans, frogs and poppies all have very different life cycles.
Fairy wasp	A spellbinding case study of one of nature's most unusual parasites.
Jigsaw puzzle	What is it? It's a butterfly!
Clip	Find out about the giant mayfly's very unusual life cycle – it is only an adult for a few hours.
Odd one out	Four creatures are shown on screen, but which one does not go through metamorphosis?
What's that noise?	What's that noise? It's a caterpillar eating.





Why classify?	
Why do we classify?	How does classification work and why is it so important?
Does it have fur?	In all parts of the world, very diverse animals have one thing in common.
Carl Linnaeus	Find out how an 18th century Swedish botanist revolutionized the way organisms are classified.
Big reveal	What is it? It's a penguin!
Clip	Find out why lizards are an extremely diverse group of reptiles.
Odd one out	Four winged animals are shown, but which is the odd one out?
True or false?	All animals that live in the sea are classified as fish – true or false?

Classifying living things	
Kingdoms	There's a lot of life out there – and we make sense of it all using kingdoms.
World's largest organism	Can you guess what the world's largest organism is?
Plant classification	There are thousands of plant species. Find out how they are classified.
Still	A still image of a mushroom.
Did you know?	Did you know that each kingdom contains different types of organisms, known as species.
Spot the...	Four organisms are shown, but which ones are plants?
True or false?	Starfish, vultures and humans belong to the same kingdom – true or false?

Invertebrates	
Invertebrates	More common than you think – but what exactly is an invertebrate?
Invertebrate warriors	Why do some animals have tougher skins than others?
Tracking tarantulas	Not for the squeamish! An adventure to track down one of the biggest spiders on the planet!
Jigsaw puzzle	What is it? It's a spider's face!
Clip	Take a high-speed look at the remarkable sunflower starfish.
Odd one out	Four animals are shown, but which is the odd one out?
True or false?	Invertebrates have no bones – true or false?

Life processes: Variation and classification



Classification keys

Classification keys	To classify living things, you just need to ask the right questions.
New arrival at the zoo	A mystery animal has arrived at the zoo. How do we decide where to house it?
Pixelate	What is it? These are snakes!
Did you know?	Did you know that not all lizards lay eggs?
Spot the...	Four animals are shown, but which are fish and which are not?
What's that noise?	What's that noise? It's an elephant.

Vertebrates

What is a mammal?	Find out why we classify whales as mammals rather than fish.
Vertebrates	Find out which groups of animals have backbones.
Poison arrow frogs	They may be poisonous, but find out why these frogs make perfect parents.
Jigsaw puzzle	What is it? It's a koala bear!
Did you know?	Did you know that not all birds can fly?
Odd one out	Four animals are shown on screen, but which one is not a reptile?
What happens next?	The gliding tree frog leaps into the air – what happens next?
Clip	Find out how marsupials rear their young.



Material processes: Solids, liquids and gases



Solids

What is a solid?	What is a solid? What properties do solids, liquids and gases have?
Liquefaction	A fascinating example of a solid behaving as a liquid.
Pixelate	What is it? These are bricks!
Clip	Find out how and why some solid substances are able to flow.
Spot the...	Six objects are shown on screen – can you spot the solids?
True or false?	Only liquids can be poured – true or false?

Liquids

Everyday liquids	What are the properties of a liquid?
Very strange liquids	Not all liquids act the same – some can behave very strangely indeed!
Jigsaw puzzle	What is it? These are tubes of paint!
Did you know?	Most metals are solid at room temperature. Did you know that mercury has a low melting point and is the only metal which is liquid at room temperature?
Spot the...	Six different liquids are shown on screen – can you spot the liquids with high viscosity?
What's that noise?	What's that noise? It's a waterfall!

Gases

What is a gas?	What are the properties of a gas?
Why do hot air balloons float?	Find out why heating the air inside a hot air balloon causes it to rise.
Big reveal	What is it? It's the surface of a bubble!
Did you know?	Did you know that the surface of Jupiter is made up entirely of gases?
Odd one out	Four balls that are used in different sports are shown on screen, but which one has a solid filling?
What's that noise?	What's that noise? It's a whale's blowhole!



Material processes: Solids, liquids and gases



Characteristics of air

What is air?	You don't think about it much, but air is everywhere and it is essential to life.
Where does wind come from?	Wind can be a powerful force, but what exactly is wind?
What happens next?	Guess what happens next as a balloon is pumped full of gas.
Jigsaw puzzle	What is it? It's a hang glider!
Clip	Witness the devastating effects of hurricanes and how they form over water.
Spot the...	Six gas molecules are shown on screen – can you spot the molecules that make up air?

Changes of state

Changing state	Materials change state all the time, but how and why?
Condensation and freezing	Why do water drops form on cold windows and why does water freeze?
Volcanic eruptions	Erupting volcanoes are a captivating example of materials changing state.
Pixelate	What is it? These are clothes drying!
Did you know?	When water is boiled to 100 degrees Celsius it evaporates into steam. Did you know that steam is actually made up of the invisible gas water vapor.
Spot the...	Six processes are shown on screen – can you spot the ones that involve a change of state?
What's that noise?	What's that noise? It's a boiling kettle.

Characteristics of water

The wonder of water	We use water every day, but what do you really know about it?
Snowflakes	How are snowflakes formed in such a dizzying array of patterns?
Big reveal	What is it? It's a hot spring geyser!
Did you know?	Around 70% of the Earth's surface is covered in water. Did you know that each water molecule consists of two hydrogen atoms and one oxygen atom?
Odd one out	Four substances are shown on screen, but which one is not a physical state of water?
True or false?	Drinking a glass of seawater will make you ill – true or false?



Material processes: Changing materials

Expansion and conduction	
Thermal conductors	Why does metal expand when it gets hot?
Expanding oceans	Sea levels are rising at twice the rate that scientists predicted. What factor did they fail to take account of?
Big reveal	What is it? It's a radiator!
Clip	On hot days the surface of the Earth can become hotter than the sky above. Did you know that the hot air above the Earth expands and bends light, causing a heat haze?
Odd one out	Four substances are shown on screen, but which one is not a good conductor of heat?
What happens next?	A balloon is dipped in liquid nitrogen – what happens next?

Insulation	
Insulation	How do insulators manage to keep the heat both in and out?
Thermos bottle	How do these clever bottles work to keep drinks at a constant temperature?
Big reveal	What is it? They are firefighters!
Did you know?	All land mammals have fur coats to keep them warm. Did you know that marine mammals have a thick layer of fat, or blubber, that acts as an insulator?
Odd one out	Four substances are shown on screen, but which one is not a good insulator?
True or false?	Kangaroos use their pouches to store food – true or false?

Chemical reactions	
Why is the Statue of Liberty green?	Did you know the Statue of Liberty was not always its distinctive green color?
You are one big chemical reaction	Did you know you are one big walking talking chemical reaction?
Big reveal	What is it? These are rusty nails!
Did you know?	Some jellyfish can emit their own light to scare off predators. Did you know that bioluminescence is produced by a chemical reaction?
Spot the...	Six processes are shown on screen – can you spot which involve chemical reactions?
What happens next?	Vinegar is added to baking soda – what happens next?
Did you know?	When iron rusts it changes color. Did you know that rust is a product of a chemical reaction called oxidation?

Material processes: Changing materials

More chemical reactions

Changing properties	What chemical and physical changes are at play in cake baking?
What is glass made of?	We use glass every day – but how is it made?
Pixelate	What is it? It's an explosion!
Clip	Exothermic reactions release heat energy. Discover how some reactions release heat slowly and some release it quickly.
Odd one out	Four objects are shown on screen, but which one is not a product of a chemical reaction?
What happens next?	Sodium is heated and added to a flask containing chlorine – what happens next?

Burning

What is burning?	What are the three factors needed to make something burn?
Fireworks	Fireworks are a feast for the senses, but what creates those amazing colors?
Pixelate	What is it? These are matches!
Did you know?	Did you know that wax is the fuel that keeps a candle burning?
Odd one out	Four images associated with burning are shown on screen, but which is the only one that is not needed to start a fire?
True or false?	When wood burns it undergoes an irreversible reaction – true or false?



Material processes: Separating mixtures

What is a mixture?

Mixtures and compounds	Discover the differences between a mixture and a compound.
Blood donation	Explore the substances that make up blood and why it is classed as a mixture.
Jigsaw puzzle	What is it? It's a fruit salad!
Did you know?	Steel is widely used in construction. Did you know that steel is an alloy, or mixture, of iron and carbon?
Odd one out	Four substances are shown on screen, but which is not a mixture?
What's that noise?	What's that noise? It's a blender!

Separation by sieving

Sieving	Discover the many applications of sieves to separate different solids.
Combine harvesters	Find out how a combine harvester separates grains from chaff using sieves.
Big reveal	What is it? It's flour being sieved!
Clip	Sieving is a process that separates solids of different sizes. Find out how sieves help archeologists find tiny treasures.
Odd one out	Four substances are shown on screen, but which is the one that cannot be separated by sieving?
What happens next?	Brussels sprouts are harvested and placed on a large mechanical sieve – what happens next?

Separation by evaporation

Separation by evaporation	Learn how to find out the difference between tap water and spring water.
Sea salt	Find out how we extract salt from seawater on an industrial scale.
Still	A spectacular still image of stalagmites.
Clip	Most of the water on Earth is seawater, which is too salty to drink. Discover how a process known as desalination is used to extract salt from seawater on a large scale.
Spot the...	Six substances are shown on screen – can you spot the water-soluble substances?
True or false?	All liquids boil at 100 degrees Celsius – true or false?



Material processes: Separating mixtures

Separation by filtration

Filtration	Discover what a school notebook has to do with a cup of fresh coffee.
Filtration on the ISS	How do astronauts aboard the International Space Station drink water recycled from their own urine?
Jigsaw puzzle	What is it? These are tea bags!
Did you know?	Filters are used to separate solids and liquids. Did you know that basking sharks use gill rakers, large combs in their mouths, to filter plankton from the seawater?
Odd one out	Four objects are shown on screen, but which is the odd one out and is not a type of filter?
True or false?	Your nose acts as a filter – true or false?

Other means of separation

Advanced separation	Find out how advanced separation processes are used to separate substances in complex mixtures.
Fractional distillation	Learn about fractional distillation and how it is used to separate crude oil into its constituent parts.
Big reveal	What is it? It's chromatography!
Did you know?	Gold is one of the most valuable metals in the world. Did you know that gold and other rock can be separated using a pan and water?
Odd one out	Four different processes are shown on screen, but which one is not used to separate mixtures?
True or false?	Wind can be used as a means of separation – true or false?



Material processes: Classifying materials

Natural and artificial materials

Natural and synthetic	Find out the difference between natural and synthetic materials, and how they are used.
The lotus effect	How did a plant on Earth inspire high-tech space suits?
Pixelate	What is it? It's coal!
Clip	Nylon is an incredibly strong, stretchy fiber. Find out how this man-made material is produced and how popular it has become.
Odd one out	Four objects are shown on screen, but which one is man-made?
What happens next?	Sheep are herded into a large pen – what happens next?

Properties of materials

Properties of materials	Discover how materials are grouped by their properties and how this is useful in everyday life.
Sponges	Discover an animal with no eyes, mouth or heart.
Density	See how the density of an object is calculated and why some materials are buoyant.
Big reveal	What is it? These are rubber boots!
Clip	How do surfers stand on water without sinking? Discover how surfboards are made and why they are buoyant.
Odd one out	Four objects are shown on screen, but which one does not float?
What's that noise?	What's that noise? It's a cement mixer!

Choosing suitable materials

Choosing suitable materials	If you were an alien who just landed on Earth, what materials would you use to help you survive?
Chimps choosing materials	Discover how chimps use the materials in their forest habitat to help them eat and relax.
Jigsaw puzzle	What is it? It's a submarine!
Clip	Discover how lightning rods protect buildings when they are struck and why they are made of metal.
Spot the...	Six different objects are shown on screen – can you spot the permeable materials?
What's that noise?	What's that noise? It's rain falling on an umbrella!





Material processes: Classifying materials

Minerals	
Minerals	Discover the world of minerals and learn about their uses.
Talc in sport	Discover the softest mineral – talc – and how it is useful in sport.
Big reveal	What is it? It's the mineral turquoise!
Did you know?	There are caves that are made entirely of salt. Did you know that these were formed 6 million years ago?
Spot the...	Six objects are shown on screen – can you spot the minerals?
True or false?	Minerals are produced by plants – true or false?

Rocks	
Rock types	Find out how different types of rocks can be classified depending on how they were formed.
How diamonds are formed	Find out how diamonds are formed within igneous rock.
Fossils	See the fossilized footprints of the first bird and discover how remains of organisms have been preserved for 150 million years.
Still	A dramatic still image of the Grand Canyon.
Clip	Find out how the fossils discovered in 124-million-year-old sedimentary rocks are revealing new information about evolution.
Odd one out	Four types of rock are shown on screen, but which is the one that is not a classification of rock?
True or false?	All limestone is formed underwater – true or false?

Soil	
What is soil?	Discover the millions of microorganisms in soil.
Erosion and weathering	Learn how the processes of weathering and erosion sculpt Earth's landscape.
Erosion on the Ganges	Explore how the Ganges river dramatically sculpts the landscape in the Bay of Bengal.
Pixelate	What is it? It's a worm!
Clip	Mars is known as the "Red Planet" because of its red soil. Discover what gives Mars's soil its distinct color.
Odd one out	Four images are shown on screen, but which is the odd one out?
What's that noise?	What's that noise? It's a mole hunting.

Humans on Earth: Future of energy



Renewable and nonrenewable energy sources

Nonrenewable vs renewable	Investigate the pros and cons of nonrenewable and renewable energy sources.
Solar power	Learn about the up and coming form of energy – solar power!
Did you know?	Did you know that waste vegetable oil can be used to fuel cars?
Pixelate	What is it? It's a wave farm!
Odd one out	Four energy sources are shown on screen, but which is not a renewable energy source?
What's that noise?	What's that noise? It's a hydroelectric power plant.

The future of energy

The Carbon family	Meet the Carbon family and discover why reducing our carbon emissions will help stop global warming.
The future of energy	Explore the ways in which scientists are developing new sources of energy.
Big reveal	What is it? It's a bicycle park!
Did you know?	Did you know that energy captured from sunlight is known as solar power, and it can be used to fly a plane?
Spot the...	Six images are shown on screen – can you spot the examples of ways to save energy?
True or false?	Your carbon footprint is the amount of carbon dioxide produced because of all the things you do – true or false?

Energy sources

Energy sources	Discover the new technologies being developed to provide energy across the globe.
Nuclear energy	Explore how nuclear power plants create energy and the devastating consequences caused when radioactive waste is not contained safely.
Pixelate	What is it? It's a wind turbine!
Clip	Find out how sugarcane can be used as fuels for cars.
Odd one out	Four fuels are shown on screen, but which is not a fossil fuel?
True or false?	Geothermal energy is energy found inside the Earth – true or false?





Humans on Earth: Future of energy

The energy debate	
The energy debate	Which is better – renewable or nonrenewable energy?
Wind turbines	Find out how wind turbines transform kinetic energy into electricity.
Still	A still image of a coal strip-mine.
Did you know?	Did you know that greenhouse gases in the atmosphere prevent heat from the Sun from escaping?
Spot the...	Six objects are shown on screen – can you spot which are sources of energy?
True or false?	Biofuels don't release carbon dioxide when burnt – true or false?

Humans on Earth: Human impact in the environment

Humans on Earth	
Humans on Earth	The number of people living on Earth is increasing daily. How does this affect the planet?
The Amazon rainforest	Find out how deforestation in the Amazon rainforest affects the whole planet, and what is being done to stop it disappearing completely.
Big reveal	What is it? These are fish farms!
Did you know?	Did you know that man-made, artificial reefs can encourage regrowth in damaged coral?
Spot the...	Six images are shown on screen – can you spot the natural resources?
True or false?	Using resources can produce environmentally harmful waste – true or false?

Polluting the land	
Land pollution	Find out how land pollution damages the environment and what measures can be taken to reduce it.
Landfills	Most of the world's waste ends up buried underground in sites called landfills, but what affect is this having on our environment?
Jigsaw puzzle	What is it? It's a junkyard!
Clip	Mount Everest, in Nepal, is the highest mountain in the world and is climbed by hundreds of people every year. Find out how the government of Nepal is protecting the mountain from pollution.
Spot the...	Six images are shown on screen – can you spot the examples of land pollution?
What's that noise?	What's that noise? It's seagulls at landfill.

Humans on Earth: Human impact in the environment

Polluting our water	
Water pollution	Life on Earth could not exist without water. However, human activities can cause water pollution. How can we prevent this?
Oil spills	A case study of the Deepwater Horizon oil spill off the Gulf of Mexico in 2010, and how it affected the surrounding environment.
Pixelate	What is it? It's an oil spill!
Clip	The Ganges River is one of the most polluted rivers in the world. Find out how the Ganges river dolphin is affected by the pollution, and how Indian authorities are deterring further pollution.
Spot the...	Six organisms are shown on screen – can you spot the clean water indicators?
What's that noise?	What's that noise? It's a speedboat.

Polluting the air	
Air pollution	This film examines the telltale signs of air pollution and how its effects can be catastrophic to ecosystems.
Smog	Find out how harmful gases in the air can react together to create smog – a form of air pollution.
Jigsaw puzzle	What is it? It's a car exhaust!
Did you know?	Did you know that as well as thousands of man-made satellites orbiting Earth, there are also ton of man-made litter and debris in orbit?
Spot the...	Six types of transport are shown on screen – can you spot which are nonpolluting?
What's that noise?	What's that noise? It's a helicopter.

Overusing resources	
Overusing resources	This film investigates why resources, such as water and metal ores, are in short supply and why we need to conserve as much as possible for the future.
Overfishing	Find out why the Atlantic bluefin tuna is facing extinction.
Pixelate	What is it? It's a dried-up riverbed!
Clip	Helium is a useful gas, not only for party balloons, but also for medical equipment and deep-sea divers. Find out why the natural supply of helium is depleted and alternative ways of obtaining it.
Spot the...	Six images are shown on screen – can you spot which actions save water?
True or false?	Deserts are not a useful natural resource – true or false?



Humans on Earth: Environmental awareness and care

Caring for the environment

Environmental awareness	Explore the important roles honeybees play in our food chain and learn why it is important to care for all living things.
Organic farming	Explore how organic farming maintains the health of the environment.
Still	A colourful still image of elephants with cattle egrets.
Clip	Discover how the symbiotic relationship between a fungus and an alga allow lichens to thrive in harsh environments.
Odd one out	Four activities are shown on screen, but which is not an example of caring for the environment?
What's that noise?	What's that noise? It's free-range hens!

Natural and synthetic materials

Biodegradable and nonbiodegradable materials	Find out the difference between biodegradable and nonbiodegradable materials.
Plastic fantastic	In this film types of synthetic plastics are examined – including biodegradable plastics known as bioplastics.
Big reveal	What is it? These are cotton plants!
Did you know?	Did you know that silk is a natural material spun by the caterpillar of the silk moth?
Odd one out	Four objects are shown on screen, but which is the odd one out and is not biodegradable?
True or false?	Metals are biodegradable – true or false?

Reduce, reuse, recycle

The three 'R's	Learn the three Rs that will slow the growth of landfill sites: REDUCING packaging, REUSING materials and RECYCLING waste material.
E-waste	Learn about the precious metals that makeup mobile phones and how £1 billion worth of e-waste will eventually be dumped in landfills.
Pixelate	What is it? These are crushed cans!
Did you know?	Did you know that human waste can be converted into fertilizer using a compost toilet?
Spot the...	Six objects are shown on screen – can you spot the reusable items?
What happens next?	Recycling bins are collected – what happens next?



Humans on Earth: Environmental awareness and care

Science and environment

Benefits of science	In this film the positive and negative impacts of scientific developments on the environment are explored.
Cane toads	There are many ways to deal with pest problems, but some of them can create an unexpected outcome.
Jigsaw puzzle	What is it? It's a space station!
Clip	Genetic modification can be used to alter an organism's genes to give them different characteristics. Discover how scientists have engineered goats that can produce spider silk.
Spot the...	Six images are shown on screen – can you spot which are scientific benefits?
True or false?	Scientists can create potato plants that are resistant to some insect pests – true or false?

Natural and artificial environmental changes

What killed the dinosaurs?	Did an asteroid or several million years worth of volcanic dust wipe out the dinosaurs? This film introduces the different theories behind their extinction.
Climate change	This film explores how the world's climate has changed over time and how human activities have accelerated this natural process.
Jigsaw puzzle	What is it? It's a tornado!
Did you know?	Did you know that because of the devastation and destruction that volcanic eruptions can cause, scientists are developing ways to predict when they will occur?
Spot the...	Six dramatic events are shown on screen – can you spot which are natural disasters?
What's that noise?	What's that noise? It's a chainsaw.





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