

Subject Video Scripts

Unit 1 – Time for television

 PB16

Media: How can we make nature documentaries?

▶

How can we make nature documentaries?
Do you watch nature documentaries on TV?
There are some amazing programmes to enjoy.
You can learn about animals that live in the sea,
in the desert
and in the African savannah.
But how do people make these documentaries?
Let's find out.
Filming animals in the wild isn't easy.
You often have to wait a long time to see them,
you have lots of cameras to move around,
and the weather might be terrible.
But filmmakers can use modern technology to bring viewers
much closer to nature than ever before.
This is a drone.
Attached to the drone is a camera.
With a drone camera, you can film from the air, to see
animals in new ways.
Modern cameras also make filming underwater easier than
before.
The cameras aren't as heavy as the ones in the past, have
better batteries and use special lights to show different
colours underwater.
This means that filmmakers can make better videos.
Sometimes, the animals you want to film are extinct.
This is where computers can help.
By using computer-generated images or CGI, filmmakers
can bring the dinosaurs to life!
It's Quiz Time!
What type of camera do you need to film animals from the
air?
That's right!
You need a drone camera.
What do you need to film animals in the water?
That's right!
You need an underwater camera.
What is another way of saying computer-generated images?
That's right!
CGI!
Modern technology lets us get closer to animals in the wild
than ever before.
Which animals would you like to see in a nature
documentary?

Unit 2 – People at work

 PB24

Social science: How can we stay safe?

▶

How can we stay safe?
When human beings learned how to make fire, it changed
how they lived.
Fire made people warm, gave them light, and kept wild
animals away.
It also gave people a way to cook food.
Fires start when a fuel such as wood, coal or oil mixes with a
gas in the air called oxygen.
When the fuel gets very hot, it starts to burn.
This produces flames and smoke.
But fire is very dangerous and can spread quickly, so it's
important to know how to be safe.
First of all, never play with matches or anything else that can
start a fire.
Don't play anywhere near a fire,
don't put too many plugs in one socket,
and make sure that your house has smoke alarms.
To stop a fire, you need to take the oxygen, fuel or
heat away.
You can do this by using a fire blanket,
a fire extinguisher,
or water.
But you need to be careful with water.
Never use it if a fire is near electrical equipment because
water can start a fire if it comes into contact with electricity.
Of course, the best people to put fires out are professional
firefighters.
Make sure you know their number so that you can call them
in an emergency!
It's Quiz Time!
A fire starts when a fuel mixes with what gas in the air?
That's right!
A fire starts when a fuel mixes with oxygen.
We can use this to put out a fire.
What is it called?
That's right!
It's called a fire extinguisher.
What do we call people whose job it is to put out fires?
That's right!
We call them firefighters.
Fires can start naturally or by accident, but if we learn how
to control fire, we can stay safe.

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Unit 3 – City life

 PB34

Geography: What are the best modes of public transport?



What are the best modes of transport?
How do you like to travel around a city?

By bus?

By tram?

By underground train?

How you travel depends on where you need to go, how much it costs, and how long it takes to get there.

Today, people are looking for the most environmentally friendly way to get around.

In some places, there are modes of public transport which cause less pollution than cars, buses and planes and are lots of fun to use.

This is Wuppertal, a city in Germany.

Wuppertal is famous for its 'hanging' train.

The train is electric, so it's a green way to travel.

This is Medellín, a city in Colombia.

And these are its cable cars.

Cable car systems don't cause noise and air pollution.

Look at the views!

This is the Shinkansen rail system in Japan.

It connects Japan's biggest cities and gives passengers a fast way to travel.

Like the hanging train in Wuppertal, these trains are electric, so they don't cause as much pollution as planes.

More and more cities around the world are using shared bike schemes.

You download an app on your phone, find the nearest bike, and use it for as long as you want.

Going around a city on a bike is a much greener option than travelling by bus or taxi.

It's Quiz Time!

Why is the hanging train in Wuppertal a green way to travel?

That's right!

Because it's electric.

What do you call this mode of transport?

That's right!

It's a cable car.

In which country do you find the Shinkansen rail system?

That's right!

The Shinkansen is in Japan.

There are so many ways to get around a city.

What's your favourite way?

Unit 4 – Disaster

 PB42

Geography and history: Where can we find volcanoes?



Where can we find volcanoes?

A volcanic eruption is one of the most spectacular sights in nature.

When a volcano erupts, it produces hot liquid, rock, smoke, and gases, throwing them high into the air.

Volcanoes can be active, dormant or extinct.

An active volcano erupts regularly,

a dormant volcano may erupt again at some point in the future,

while an extinct volcano probably isn't going to erupt again.

We can find volcanoes all around the world, but 75% of them are in the Pacific Ring of Fire.

In this 40,000 km area of the Pacific Ocean, there are 450 volcanoes.

Most of the world's earthquakes happen in this zone too.

Why is this area so active?

Let's take a look.

The outer layer of the Earth is called the crust.

This is a kind of shell that covers the whole of the planet.

The crust is made of large pieces of rock called tectonic plates.

These plates move and bump against each other.

We call the place where two plates meet a plate boundary.

It is at these boundaries that there are lots of volcanoes and earthquakes.

The Pacific Ring of Fire is where many of these plates meet.

Volcanic eruptions are dangerous and destructive.

But it's important to remember that there are also positive effects:

the ash a volcano produces is good for the soil nearby, making it better for growing crops,

and scientists can use the heat from within a volcano to heat homes and generate electricity.

It's Quiz Time!

What do we call a volcano that probably won't erupt again?

That's right!

An extinct volcano.

What do we call the area of the Pacific Ocean where we can find most of the world's earthquakes?

That's right!

The Pacific Ring of Fire.

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What do we call the pieces of rock that make up the Earth's crust?

That's right!

Tectonic plates.

Krakatoa, Etna, and Vesuvius are three of the most famous volcanic eruptions in history.

Scientists these days can monitor volcanic activity and will know before the next one starts to erupt, so they can keep people safe.

Where do you think the next one will be?

Unit 5 – Material things

 PB52

Art: What can you make with recycled materials?

What can you make with recycled materials?

We can make art in many ways: with paint, with pencils, on a computer.

We can also use materials such as wood, glass, and metal.

With these materials, some artists make a type of art called 'sculpture'

and the people who produce sculptures are called sculptors.

When we think of sculpture, we often imagine someone making something from a material like clay, but some people make art from rubbish!

We produce so much rubbish, and this is a huge problem for our world.

We can all help by making sure that we put our waste in the right bins, so that it can be recycled.

But we can also use recycled materials to make art!

Some artists put the artwork on display in a gallery, to make people think about the things that we throw away every day.

We can make other things with waste too.

An old tin can, for example, can become a plant pot.

You can also connect two tin cans with some string and make a telephone!

It's Quiz Time!

What do we call an artist who makes something out of clay, glass or metal?

That's right!

A sculptor.

What kind of art do sculptors produce?

That's right!

Sculpture.

Look at this sculpture.

What recycled material is this fish sculpture made from?

That's right!

It's made from recycled plastic.

Before you put something in the bin again, ask yourself a question: could I make something interesting with this?

Unit 6 – Senses

 PB60

Science: How do we make noises?

How do we make noises?

We live in a world of sound, of mobile phones ringing, planes flying overhead, rain falling on umbrellas, and music.

But what is sound?

Let's take a look.

Sound is created when objects vibrate, that is, when they move side to side with small movements.

When you bang a drum, it vibrates.

When you pluck a guitar string, it vibrates.

When you speak, the voice box in your neck vibrates.

These vibrations make sound waves.

The sound waves travel all the way to your ear.

You then hear a sound.

Sound waves can travel through the air, through liquids,

or through solid objects.

Sound travels faster through liquids and solids than through the air.

In space, there is no sound because there isn't any air for it to travel through.

Some sounds are louder than others, and this is because of vibration.

A bigger vibration makes a louder sound than a smaller vibration.

It's Quiz Time!

What happens when you pluck a guitar string?

That's right!

The guitar string vibrates.

What travels through air, solids or liquids to your ear?

That's right!

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Sound waves.

Why is there no sound in space?

That's right!

Because there is no air for sound to travel through.

There are all kinds of sounds: from water, to car horns, to the laughter of our friends.

Which sounds do you like the most?

Unit 7 – Natural world

 PB70

Geography: How can we help endangered species?

How can we help endangered species?

Many of the world's animal species are endangered, from the elephants of India, to the giant pandas of China.

There are several reasons for this.

One reason is climate change.

A warming world can make an animal's habitat much harder to live in.

Human beings create the pollution that causes climate change

and they also damage animal habitats by cutting down forests

and building bigger cities.

Humans hunt animals too,

and they use chemicals called pesticides to kill the insects which eat plants.

But this also kills bees

and bees are very important to life on Earth.

These small animals transfer pollen between different parts of flowers and plants.

This is called pollination and it helps plants grow, which provides us with lots of food to eat.

So, what can you do to help endangered species?

First of all, find out which animals are endangered in your area.

You can then volunteer at local projects which help those animals.

If you have a garden, plant flowers and trees to give wildlife food and shelter.

You can also join organisations that help endangered animals,

make sure you don't buy products that came from

endangered animals,

and use less plastic.

A lot of plastic ends up in the sea, where animals can eat it.

Finally, make sure you talk to your family and friends.

The more people who know about the problems, the better.

It's Quiz Time!

These animals live in China. They are endangered. What are they called?

That's right!

They are giant pandas.

Chemicals called pesticides kill insects, including bees. What do bees do that is important?

That's right!

Bees help with pollination.

You can help endangered animals by using less of which material?

That's right!

Plastic.

There are many things we can do to help endangered species.

What are you going to do?

Unit 8 – World of sport

 PB78

Physical education: How do people train for different sports?

How do people train for different sports?

Everyone knows that sitting on the sofa all day, or eating lots of junk food, isn't good for you.

You've got to get up, get active, exercise!

But what sort of exercise should you do?

There are two main types: these are called aerobic and anaerobic.

Aerobic means 'with air'.

People do aerobic exercise for twenty minutes or more at a time.

Swimming is a good example.

When you swim, you breathe faster, taking in more oxygen.

The oxygen travels from your lungs to your heart.

Your heart beats faster, sending the oxygen to your muscles, giving them energy.

Aerobic exercise keeps the lungs and heart healthy, making you fitter.

Anaerobic means 'without air' and anaerobic exercise is all about doing an activity for a short period of time.

Weightlifting is a good example.

The activity doesn't last long enough for oxygen to get to the muscles.

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This means that the body uses the energy that it already has.
Anaerobic exercise makes you stronger and helps keep your body healthy.

Of course, most sports involve both types of exercise.

In football a player does aerobic exercise when running and anaerobic exercise when kicking the ball or tackling someone.

It's Quiz Time!

What does the word 'aerobic' mean?

That's right!

It means 'with air'.

Which do you do for longer: aerobic or anaerobic exercise?

That's right!

Aerobic exercise.

Is weightlifting aerobic or anaerobic exercise?

That's right!

It's anaerobic exercise.

There are many ways to keep fit and healthy, from playing tennis to going for a run.

What kind of exercise do you like to do?