

Subject Video Scripts

Unit 1 – Beastly tales

 PB16

History: How have our toys and games changed?

▶
How have our toys and games changed?

Today, millions of young people around the world enjoy playing video games.

Through these games, you can enter new and exciting worlds.

You don't need to be in the same place to play with your friends,

and you can make new friends by playing games online.

Thousands of years ago, in what we call ancient times, people didn't play computer games, of course, but they did have games then which are like some of the games we play today.

In Ancient Greece and Rome, for example, people played games with dice.

The dice had six sides with spots on, just like the ones that we use.

Do you enjoy playing board games?

Well, the ancient Egyptians played a board game called Senet,

which used counters made of bone.

Today, you can play the game online!

Senet is very old, but historians believe that the oldest board game in the world is Go.

People first played Go in China a few thousand years ago, but it became very popular in Japan.

The game is still popular in Asia today.

You play it with black and white pieces called stones.

You can win when you put more stones on the board than the other player.

Have you ever played with a yo-yo?

People first played with yo-yos over 2,000 years ago, but then the toys were made of wood, metal or clay.

Today, they are usually made of plastic.

It's Quiz Time!

In Ancient Greece and Rome, what did people like to play games with?

That's right!

They liked to play with dice.

In which country did people first play the game Go?

That's right!

People first played Go in China.

What material are yo-yos usually made of today?

That's right!

Yo-yos are usually made of plastic.

Over time, games change, but one thing stays the same: we all like to play them!

Unit 2 – Tomorrow's world

 PB24

Physics: What can robots do for us?

▶
What can robots do for us?

Robots are already a big part of our lives.

We use these amazing machines to do lots of things for us.

Robots are very useful to us.

They can move, work and run faster than we can and they can do the dangerous or boring tasks that we don't enjoy.

Robots make cars in factories

and help doctors perform surgery in hospitals.

We even send robots to explore the planet Mars.

At home, millions of us use small robot devices every day to answer questions and play music.

Robots can also clean our houses.

Around the world, computer scientists are working hard to make better and better robots.

Some are even working on humanoid robots – robots that look like human beings.

One day, we might find it hard to tell who is a human being and who is a robot.

It's Quiz Time!

What kind of robot makes cars?

That's right!

Industrial robots make cars.

Which planet are robots helping us to explore?

That's right!

They're helping us to explore Mars.

What do we call robots that do jobs for us at home?

That's right!

Domestic robots.

Computer technology is making robots a bigger part of our everyday life.

But there is an important question to ask: if we use robots to do everything for us, what will we do?

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Unit 3 – The great outdoors

 PB34

Geography: What can we see in our world?

What can we see in our world?

There is so much to see in our world, from the great oceans to the rainforests, from animals in their natural habitat, to human beings in theirs. Some of the most interesting things to see on our planet are mountains.

We can find these beautiful landforms all around the world – they are even under the sea.

Mountains form when two plates in the Earth's crust push against each other.

Over millions of years, this pushes up rocks, which form a mountain.

A group of mountains, like the Alps in Europe or the Atlas mountains in North Africa is called a mountain range.

Some mountain ranges are thousands of kilometres long. The Andes, for example, goes all the way down the west coast of South America.

Mountains give people adventure and excitement.

You can walk in them, you can ski or snowboard down them, and you can climb them.

The Himalayas mountain range in Asia, has two mountains that people love to climb:

Mount Everest, and K2.

So if you'd like to try climbing a mountain one day, start practising at your local climbing wall.

It's Quiz Time!

How long does it take for mountains to form?

That's right!

It takes millions of years.

What is a group of mountains called?

That's right!

A group of mountains is called a mountain range.

In which mountain range will you find the K2?

That's right!

K2 is in the Himalayas.

We can find mountains on every continent on Earth.

Would you like to try climbing a mountain one day?

Unit 4 – Food, glorious food

 PB42

Biology: How does food get to your table?

How does food get to your table?

Every day we sit down to eat with our friends and family, but do you ever think about how the food that you eat actually gets to your table?

Let's take a look.

As you know, you should eat lots of fresh fruit.

Fruit is full of vitamins and minerals, which keep us healthy. And it tastes great!

Fruit grows around the world.

Some, such as bananas, grow in places with a tropical climate, where it is hot and wet.

Others, such as apples, grow in places with a mild climate, where the summers are warm and the winters cold.

Apples grow in orchards, which is what we call an area of land where fruit trees grow.

Farmers harvest apples in late summer or autumn.

People who work in the orchards pick the apples by hand, transport them to a packing house where we wash the apples

and check them to make sure that they are the right colour and shape.

We also check the apples for damage.

After this, we store apples in large rooms.

Then we pack them into crates

to transport them around the world

and drive them to the supermarket in big lorries,

where you and your family can buy them

and finally take them home.

It's Quiz Time!

Do apples grow in tropical or mild climates?

That's right!

Apples grow in mild climates.

What do we call the area of land where apples grow?

That's right!

It's called an orchard.

When do farmers harvest apples?

That's right!

Farmers harvest apples in late summer or autumn.

The journey from the orchard to your fruit bowl is a long one.

Think about it the next time you bite into delicious, crunchy apple!

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Unit 5 – Under the sea

 PB52

Environment: How can we make electricity?



How can we make electricity?

For a long time, we have known that fossil fuels are bad for the environment.

They create pollution, which causes global warming.

We still use fuels like gas, oil and coal to give us the energy we need,

but everyone knows that we must get our energy from natural sources,

like water,

wind,

and the sun.

We call this type of energy 'renewable' because it won't run out.

This means it's not possible to use it all up.

Renewable energy is much better for the environment,

and we can use it to make electricity in different ways.

These are called wind turbines.

You may have seen them in the countryside.

When the wind blows it turns the turbines and this makes electricity.

You might have seen these too: they are solar panels.

The panels are made of silicon.

When the sun shines, the silicon creates an electric charge.

We can also use water to make electricity.

Hydro energy uses flowing water,

while tidal energy uses the tides.

When the tides go up and down, the movement of the water turns turbines under the sea.

It's Quiz Time!

What do we call the energy we get from the sun?

That's right!

We call it solar energy.

What do we call the energy that we get from the tides?

That's right!

We call it tidal energy.

We use these to make electricity from wind energy.

What are they called?

That's right!

They're called wind turbines.

Renewable energy is the future of our planet.

It will help make our world cleaner and safer.

What renewable forms of energy are people using where you live?

Unit 6 – Free time

 PB60

Design: What makes a funfair ride exciting and safe?



What makes a funfair ride exciting and safe?

Is this your idea of fun?

For millions of people around the world, the answer to that question is 'yes'.

Theme parks are popular places with many young people, who enjoy the fast, exciting rides.

Of course, the biggest and fastest ride of them all, is the rollercoaster.

At the start of the ride, a motor pulls the rollercoaster upwards

but when the train gets to the top, gravity pulls it down again.

Gravity is the force that keeps us all on the ground and which makes things fall.

People love how fast rollercoasters travel.

They like being scared on the twists and turns,

and the loops which take them upside down.

People laugh and scream, and even if they feel scared, they know the ride is safe.

This is because the wheels of the train are locked to the track, so it can't fall off!

There is something else which makes rollercoasters safe: the harness.

Anyone who goes on a rollercoaster must wear a harness, which holds them in place in their seat.

It's Quiz Time!

What pulls a rollercoaster upwards?

That's right!

A motor.

What force do rollercoasters use to come back down again?

That's right!

The force of gravity.

What do people on rollercoasters wear to keep them safe?

That's right!

They wear a harness.

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Rollercoasters are very exciting to ride.
They're also safe to use.
How do you think you would feel on this one?

Unit 7 – Fashion sense

 PB70

Design: What happens to our old trainers?

What happens to our old trainers?

Americans call them 'sneakers',
British people call them 'trainers',
but if you prefer, you can call them running shoes or sports shoes.
People first wore trainers for sport,
but in the last forty years more and more people have worn them for fashion.
Trainers are comfortable to wear
and they come in many different styles.
It's easy to see why they're popular.
But there is a problem: billions of pairs are made every year.
So what happens to all the old pairs?
Trainers are made from materials such as plastic, rubber and leather.
These materials take a long time to decompose –
and that isn't very good for the environment.
You should try to make your trainers last as long as possible.
When they get old don't just throw them away.
You can use them as plant pots,
give them to a second-hand shop,
and if they are broken, you can repair them.
When you think of buying a new pair, look for trainers made from recycled products
or ones that are made from plant-based materials that decompose quickly.
One day, perhaps all trainers will be made from these materials.

It's Quiz Time!

What do British people call this type of footwear: sneakers or trainers?
That's right!
They call them trainers.
How many pairs of trainers are made each year?
That's right!
Billions of pairs of trainers are made each year.
What kind of shop can you give your old trainers to?
That's right!

You can give them to a second-hand shop.

It's a good idea to think about how you can give your trainers a longer life.
If we all stop throwing things away when we decide we don't want them,
it'll be much better for our planet.

Unit 8 – Around the world

 PB78

Maths: Which countries do people visit the most?

Which countries do people visit most?

We all enjoy holidays.
Travelling to different places is lots of fun.
Some people enjoy going on holiday in their own country,
others prefer to go far away.
People travel for many reasons, not just for holidays.
They may go away for work,
to study in a university,
or to meet family and friends.
But do you know which countries people visit most?
The United States is one of the most popular,
but the answer to our question really depends on who you talk to.
We asked 400 young people in the UK about where they like to travel.
Spain was the most popular country,
followed by France,
and then Italy.
There are different ways to show the results of our survey.
We can display them in a bar graph.
in a pie chart,
or in a table.
Diagrams like these help us organise information, making it easy to see and understand.

It's Quiz Time!

Is this a bar graph or a pie chart?
That's right!
It's a bar graph.
The bar graph shows popular cities to visit in the UK.
Which is the most popular city to visit?
That's right!
London is the most popular city.
Look at this pie chart.

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Where do most visitors to the UK like to go?

That's right!

It's Buckingham Palace.

Many countries are popular places for holidays,
from Turkey,
to Thailand.

Do you have a favourite country to visit?