

Science

Materials and their properties

Key Questions:

What are some different types of material?

Plastic, fabric, wood, metal, glass,

Why are the properties of materials important?

Materials have different properties that make them useful for different jobs. We select them for particular purposes thinking about if a material is waterproof, transparent, bendy, flexible, soft, shiny, dull and so on. For example, plastic is transparent, durable and protective, which is why it is used to package food in supermarkets.

Science/DT Egg Drop Challenge

Key Questions:

How can I create a contraption fit for purpose?

We will be dropping an egg from a height, thinking about how we will create a functional contraption to prevent it from breaking.

What materials could you use and why?

Use materials which are strong, rigid and hard as opposed to materials which are fragile. You also need to think about how you can join the materials.

What is shock absorption?

We need to think about what materials will cushion an egg and protect it from a fall, controlling how hard it will hit the floor.

What is air resistance?

Air resistance is a kind of friction that occurs between air and another object. It is the opposing force that the object experiences as it passes through



DT

Designing a fantasy vehicle

We are using the software Purple Mash to design our own fantasy vehicle.

Key Questions:

What is a net?

It is a flat two dimensional shape, which contains score lines and when is folded and glued together forms a three dimensional shape.

Materials to create your vehicle:

Cereal boxes, cartons, plastic milk bottles, yoghurt pots etc can be used. Other materials such as bubble wrap and scraps of fabric.



Year 1- Spring 2

LEARN IT, KNOW IT, USE IT



Theme - TRANSPORT



What YOU need to know!

History

Changes in Transport

Key Questions:

What was the first mode of transport?

Horses were the first mode of travel, they were domesticated in 4000BC for people to ride. This was followed by the Sedan Chair, and then the invention of the Viking Longboat in AD700.

What changes can you see?

The appearance of transport has changes, new types of transport have been introduced, it is more efficient, faster and is beneficial for people in lots of ways.

What is a mode of transport?

Mode of transport is used to describe different ways of transportation or transporting people and goods. The different modes of transport are air, land, and water transport, which includes Rails or railways, road and off-road transport.

Other modes are pipelines, cable transport, and space transport.

How can we use transport?

Transport is convenient, it allows us to travel from one place to another quickly and with ease. We can travel to work using transport, a car, bus, train or even an aeroplane. Transport means we can explore anywhere in the world, we can go on trips and have new experiences.

How can transport help us?

Transport is very important for the economy and businesses, as goods can be transported to and from shops, factories and so on. Fresh food reaches the supermarket quickly for us to enjoy!

Boats and submarines allow us travel with ease across and under water.

Emergency vehicles are also very important as ambulances, fire engines, the police and air ambulances help people to stop emergencies and save lives.

Tractors and farming vehicles mean that farmers can be more productive.

Construction vehicles such as cranes mean we can create new buildings and landmarks.

Other types of transport include mobility scooters and wheelchairs which aid people who needs them.

Computing

Comic Strip design

Key Questions:

What skills will I be using to create a comic strip?

We will learn how to add a suitable background to panels, use different controls to move around a comic and make space e.g zoom, minimise menus, add, re-size, move and rotate objects including characters, add text and re-size text boxes and speech bubbles.

<https://makebeliefscomix.com/Comix/>

RE—Judaism

Key question: Why might some people put their trust in God?

How does Noah's Ark link to Judaism?

The story is about a man in the Bible named Noah, who listened to God's warnings of a great flood intended to destroy wickedness on earth. Noah built the ark and prepared for the flood, saving his own family and at least one pair of each kind of animal. At the end of the story it states the rainbow as a sign of God's promise. This is a reminder to people that keeping your promise to God is important. In the religion Judaism they have a celebration called Sukkot.

What is Sukkot?

Celebrations are important in many cultures as a way of remembering something special and often as a reminder to be grateful - in the same way, Sukkot is a time for the Jews to remember to be grateful to God for keeping his promise and providing them with all that they need.

Sukkot is celebrated by, first of all, building a sukkah. Jews are required to eat in the sukkah for eight days (seven days in Israel), and some even sleep in the sukkah for the duration of the holiday.



ART

Key questions:

Who is Chas Jacobs?

An artist that lived in Lancaster who creates paintings using bright, bold acrylic paints.

When did he become a full time artist?

In 1994 after spending 20 years painting as a hobby.

What item often features in his pictures?

Colourful hot air balloons, and vibrant landscapes of Lancaster, Morecambe and the surrounding areas.

What is wax resist?

You can use waxy crayons or pastels and watercolour paints. Water clings to paper and makes the paper wet. It does not cling to wax or oil. In waxed paper, the wax protects the paper and keeps it dry.

What is collage? a piece of art made by sticking various different materials such as photographs and pieces of paper or fabric on to a backing.