



Vocabulary

Reading Challenge:
Living in Brazil by Chloe Perkins

Sticky Knowledge

Brazil has a very hot climate because it lies just off of the Equator. It is the largest country in South America and has the longest coastline.

Life in Brazil is very divided, with poorer people living in favelas and the rich living in high rises in the capital.

Brazil is home to the Amazon Rainforest which has lots of biodiversity with over 200 species living there. The Amazon is threatened by deforestation.

People in Brazil use the land for agriculture. There are primary, secondary and tertiary sectors. Over 65% of the population works in the tertiary sector.

Key Question: Do you think Brazil is a first or third world country?

Different Types of Jobs

Primary Sector

Harvesting a resource from the land or sea, e.g. farming, fishing and mining.



Secondary Sector

Manufacturing or assembling raw materials into goods.



Tertiary Sector

Services and selling of goods.



Extraction Removal of something using force or effort.

Non-renewable resources Resources that have a limited supply, such as fossil fuels, which need extracting from the Earth.

Renewable resources Resources that can be extracted but do not run out of supply such as sunlight, wind and water.

Resource A material from the Earth that people need and value.

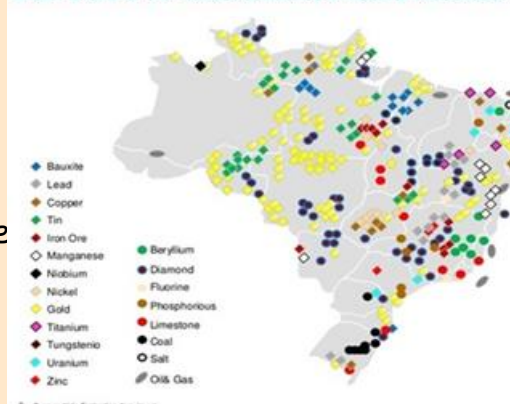
Where is Brazil?



Natural Resources

- Brazil is one of the richest countries in natural resources.
- It has large deposits of metals and minerals such as diamonds, manganese copper and bauxite.
- It is the world's leading producer of tin and iron ore.

Brazil is one of the richest countries in natural resources ...



What is deforestation?



The cutting down of trees in the Amazon has been happening on a large scale for many reasons including: agriculture, logging, urbanisation and mining.

Vocabulary

Solution A liquid in which a solid substance has been dissolved.

Evaporation The process of a substance in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure.

Filtering To pass through a device which is designed to remove certain particles contained in it.

Properties Characteristics of different materials that make them suitable for purpose.

Separate To break into parts or to keep apart.

Dissolve Breaking down of a material into tiny particles to make a solution.

Reading Challenge:
What's the Matter? By Ontario Science and Technology



Sticky Knowledge

Irreversible changes cannot be undone. For example, when vinegar and bicarbonate of soda are mixed. This is known as a chemical change.

Reversible changes, like melting and dissolving, can be changed back again. However it might look different from its original form.

Mixtures can be separated out by methods like filtering and evaporating.

Temperature affects the ability of a liquid to dissolve a solute. A solute does not disappear when in a solution - it has just dissolved.

Key Question:
Is burning a reversible or an irreversible change?



This is the combustion triangle containing heat, fuel and oxygen.

This link will help you to learn more about this topic at home:
<https://www.bbc.co.uk/bitesize/topics/zryycdm>

You will need to think back to your solids, liquids and gases work for this unit!

Vocabulary

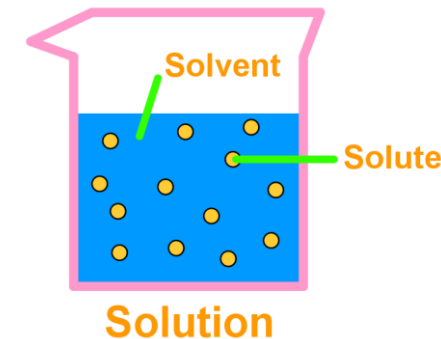
Solute A substance that is dissolved in a solution is called a solute.

Particles A particle is the smallest possible unit of matter.

Sieving To separate a powder or a liquid by passing it through a sieve.

Mixing Combining substances that do not dissolve.

An example of a solvent, solute and solution. What other words do you know in this word family?



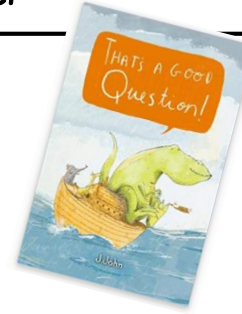
Vocabulary

Crucifixion	An ancient form of execution in which a person was nailed to a cross.
Destiny	The belief that events that will happen to a particular person or thing in the future.
Jerusalem	A Holy city located in the Middle East. It is the capital of Israel.
Pontius Pilate	The governor of the Roman province who ordered the crucifixion of Jesus Christ.



Meet our Discovery RE owl!

Reading Challenge: 'That's a good question' by J. John. That's a Good Question! is a collection of 32 tricky questions which children commonly ask.



Sticky Knowledge

Christians believe that Jesus was the incarnation of God sent to Earth to show people how to lead good lives, to die as a sacrifice, so they could be forgiven and come back to life again. This proved to Christians that they could also have life after death. Through Jesus, sin is dealt with, forgiveness offered and the relationship between God and humans is restored. The Bible cites many examples where Jesus says he knows he will be going to his death.

One of Jesus' disciples, Peter, denies that he is a follower of Jesus when asked by the authorities to protect himself. Jesus predicted that Peter would do this, and Peter swore that he would not.

The Last Supper was the meal eaten by Christ with his disciples on the night before his Crucifixion.

Key question we will be investigating: How significant is it for Christians to believe God intended Jesus to die?

Vocabulary

Holy Week	The week of events before Easter Sunday, starting on Palm Sunday.
Palm Sunday	The day where Christ's enters Jerusalem. It is celebrated by processions in which branches of palms are carried. The Sunday before Easter.
Salvation	The saving of a person from sin.
Resurrection	(In Christian belief) the rising of Christ from the dead.

Christian beliefs

Christians believe there is only one God, but that He is revealed in three different forms:

- God the Father
- God the Son
- The Holy Spirit

Christians model themselves on the life and teachings of Jesus Christ.

Many Christians worship in churches. Some groups meet in homes and other buildings. 'Church' means the gathering of Christians as well as the building in which Christians worship.

Questions

How would you add a formula so that the cell shows the product of two other cells?

Click on the cell where you want the product to be displayed then click the formula wizard button. Click on the cell that contains the first number. Choose the x operation then click on the second number. Click OK.

What would you use in 2Calculate to have a cell that automatically calculates the number of days since a certain date?

You could use formulae and the totaling tools. To make the spreadsheet easier to understand, you could use named variables.

Explain what a spreadsheet model of a real-life situation is and what it can be used for?

It represents the data of a situations for example budgeting for a party, working out how big a field needs to be for a certain number of animals or working out how to spend your pocket money over time.

Reading Challenge:

100 Things to Know About Numbers, Computers & Coding

Filled with 100 fascinating facts all on computing!



Sticky Knowledge

Using a formula wizard to add a formula to a cell automatically makes a calculation in that cell which saves time.

It is possible to test a hypothesis using tools in 2calculate.

A spreadsheet models real-life situations and answers questions on data for us. It can calculate estimated costs.

It is possible to automatically make a calculation in a cell of our choosing.

Key Question:

Where else in our curriculum do we use the term hypothesis? Where else do we change variables?



Vocabulary

Average

The mean of the given values.

Copy and Paste

A way to copy information from the screen into the computer's memory and paste it elsewhere without retyping.

Columns

Vertical reference points for the cells in a spreadsheet.

Cells

An individual section of a spreadsheet grid. It contains data or calculations.

Charts

Creates graph types.

Formula

The wizard guides you in creating a variety of formulae for a cell such as calculations, totals, averages, minimum and maximum for the selected cells.

Rows

Vertical reference points for the cells in a spreadsheet.



Vocabulary

Vocabulary

Assembly Line An assembly line is a production process that divides up the labour process. Assembly lines are the most commonly used method in the mass production of products.

Producer A person, company, or country that makes, grows, or supplies goods for sale.

Pulping The process of crushing something into a soft, wet, shapeless mass.

Consumer A person who purchases goods and services for personal use.

Fluting The process of crafting carved lines onto card.

Product Something that is made to be brought. For example, food.

Packaging Materials used to wrap or protect goods.

Reading Challenge: 'Recycling things to make and do' is a fantastic book by Usborne where children can have a go at making their own packaging!

Sticky Knowledge

Packaging must be functional. This means it must protect a product from toxins, be able to be transported and sorted.

Mass production, also known as flow production or continuous production, is the production of large amounts of products.

Nets are often used for packaging items such as orange cartons, point of sale display units, tissue boxes.

Fair trade was created as an alternative way of doing trade by giving fair prices to farmers in developing countries.

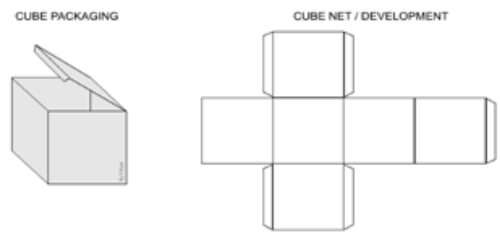
Key Questions:

1. How is packaging made?
2. What does fair trade mean?
3. What is the purpose of packaging around products?
4. How is packaging perfectly shaped and constructed?



Here is an example of an assembly line where products are made and then distributed.

What are nets? A net is a flat two dimensional shape, which contains score lines and when is folded and glued together forms a three dimensional shape.



Research

Design

Make

Evaluate



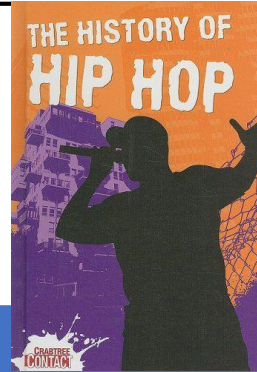
The Rosecliffe Design and Technology stages



Vocabulary

Instrumental	A recording without any vocals, performed by instruments only.
Improvise	To create without any preparation - to make it up as it goes along!
Composition	Arranging and combining the parts of music to make the whole piece.
Notation	A series of symbols and markings that inform musicians how to perform a composition. This is an example of notation:

Reading Challenge: 'The History of Hip Hop' by Melanie J. Cornish explores how Hip Hop has developed all the way from Tupac to Eminem!



Sticky Knowledge

"Yo Home to Bel-Air", informally known as "The Fresh Prince of Bel-Air theme", is a song performed by DJ Jazzy Jeff & The Fresh Prince. It is the theme song to the NBC sitcom The Fresh Prince of Bel-Air. Music for the song was written by Quincy Jones.

Lyrically, the song is storytelling narrative,[7] describing how its protagonist was "born and raised" in West Philadelphia, but after a violent encounter he was sent to live with family in Bel Air, Los Angeles.

Fun Fact: Hip Hop was developed in the 1960s in New York.

Listen and Appraise

Melody	Who is singing/playing the main tune?
Rhythm	What pattern are the notes played in?
Pitch	Are the notes high, low or both?
Instruments	What instruments are used in the music?
Tempo	What is the speed of the song? Does it change?
Texture	Are there many layers to the music?
Structure	How is the song put together?
Dynamics	Is the music loud, quiet, in between or changes?



Have you heard of these artists and songs before? We will be listening and appraising these during our lessons:

- Me, Myself And I by De La Soul
- Ready Or Not by The Fugees
- Rapper's Delight by The Sugarhill Gang
- U Can't Touch This by MC Hammer
- It's Like That by Run DMC

By the end of the unit, children will be able to reflect:

- What did you like best about this Unit? Why?
- Was there anything you didn't enjoy about it? Why?
- Did you have any strong feelings about it?
- Were you proud of yourself, happy or annoyed?
- What are the 'style indicators' of Hip Hop?

Vocabulary

Banksy
 Banksy is a famous - British graffiti artist. He keeps his identity a secret.

Although a lot of his art is produced in public places, he usually only reveals it's his after it has appeared on his social media.

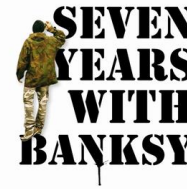
A lot of his art is done in a particular style which people can easily recognise.

Shading
 The darkening or colouring of an illustration or diagram with parallel lines or a block of colour.

Subliminal messaging
 To influence people without realising they are being influenced.

Mood Board
 An arrangement of images, materials, pieces of text, intended to evoke or project a particular style or concept.

Reading Challenge:
 Seven Years With Banksy by Robert Clarke offers an insight into what it was like working with the most elusive street artist known to date!



ROBERT CLARKE

Sticky Knowledge

Banksy uses stencils as a blocking material. In stencils, there are holes for ink or paint to pass through. That way an image is made on the material behind the stencil.

Banksy uses the stencils to convey messages which link to real world events.

Colour and shading can be added to a picture to create depth, texture and tone.

A mural is a picture that is painted directly onto a wall. It is in a public space so it can be seen by as many people as possible.

Key Question:
 Why do you think Banksy chooses to graffiti on walls?
 Can you think of any other areas that Banksy has painted on?

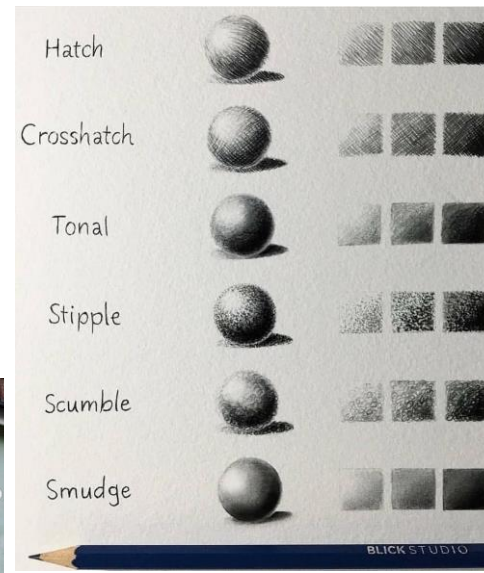
Fun Fact:
 In 2010, Banksy was selected as one of the Time magazine's 100 most influential people despite being anonymous!



Vocabulary

Street Art
 Street art is visual art created in public locations for public visibility. It has been associated with the terms "independent art", "post-graffiti", "neo-graffiti" and guerrilla art.

Graffiti
 Writing or drawings scribbled, scratched, or sprayed illicitly on a wall or other surface in a public place.



BLICK STUDIO

Vocabulary

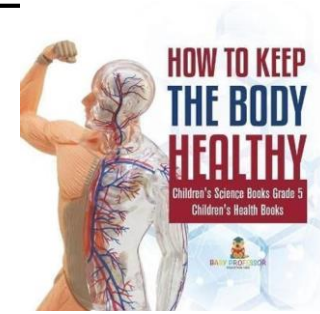
Physically Active
 Exercise is a body activity that enhances or maintains physical fitness and overall health and wellness. It can: aid growth, improve strength, develop muscles and the cardiovascular system, hone athletic skills, and increase weight loss.

Body Image
 This is how you see yourself when you look in the mirror or when you picture yourself in your mind.

Friendships
 A state of mutual trust where individual feel valued.

Remaining Calm
 To not allow nervousness or anxiety to take over during a stressful situation.

Reading Challenge:
 How to Keep the Body Healthy by Baby Professor is a fantastic non-fiction books which teaches children the science behind keeping well.



Sticky Knowledge

Misusing alcohol and smoking can lead to anti-social behavior and is more likely to increase risk of lung cancer, liver failure and heart problems.

Emergency aid can be administered to someone in physical need such as the recovery position.

Social media can promote certain body types and often, unachievable in realistic every day life. This can lead to body image pressures.

Food has different roles in different cultures

Key Question:
 What steps can you take to lead a balanced and healthy lifestyle?

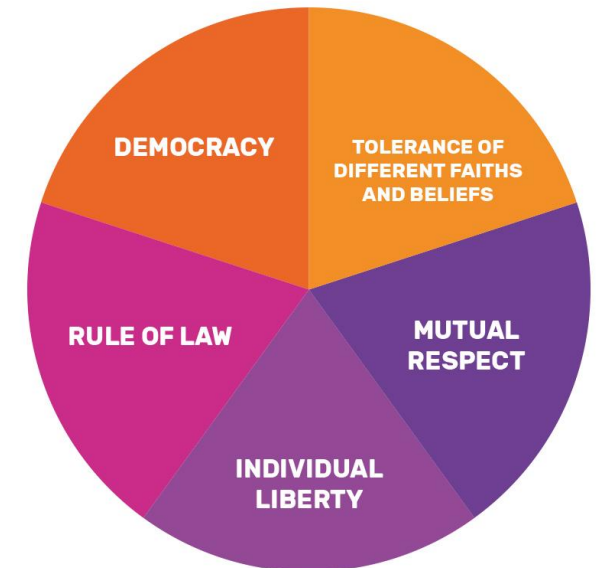
Mutual Respect:
 Mutual respect is understanding that we all don't share the same beliefs and values. It is the foundation for honesty, trust, and meaningful communication. In order for relationships to remain healthy, people must be equally respected and appreciated.

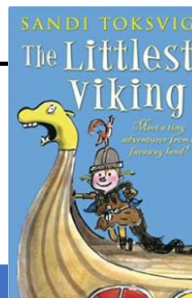
Vocabulary

Smoking
 The action or habit of inhaling and exhaling the smoke of tobacco.

Alcohol
 A colorless flammable liquid that in one form is the substance in liquors (as beer, wine, or whiskey) that can make a person drunk

How does this topic link to our British Values?





Vocabulary

Danelaw	An area of northern and eastern England that was under the control of the Danes from the late 9th century until the early 11th century.
Invade	Vikings went to invade other lands by going into battle to steal treasures and take over the land.
Jorvik	When the Vikings settled in York, England. They named it Jorvik which is said to mean 'Wild Boar Creek'.
Settlers	Vikings would move their families to new lands they had conquered and settle.

Reading Challenge:
The Littlest Viking by Sandi Toksvig is a fantastic fiction about the travels of a Viking!

Sticky Knowledge

The Vikings had slaves and used them to create a social hierarchy.

A system of trade was created as the Vikings would travel between neighbouring counties to sell items. This soon expanded overseas.

Many Vikings settled in York (Jorvik) and the midlands. This area became known as 'Dane Law.'

The Bayeux Tapestry depicts the fall of the Vikings as the Normans attacked in 1066 at the Battle of Hastings.

Key Question:
The Vikings were very talented craftsmen. How many things can you think of were firstly made by Vikings?

Vocabulary

Bayeux Tapestry
An embroidered cloth illustrating events leading up to the Norman Conquest and made between 1066 and 1077 for the bishop of Bayeux in Normandy.

Longboat
A very large boat used by the Vikings. It could fit up to 120 soldiers.



Scandinavia
The Vikings came from Norway, Sweden and Denmark.



Timeline

793 AD Vikings attach the monastery of Lindisfarne	829 AD Wessex becomes the Supreme Kingdom	851 AD Athelstan, son of the king of Wessex, defeats a Viking fleet in battle	867 AD The Vikings capture York	878 AD Wessex is overrun by Vikings and King Alfred goes into hiding	886 AD England is divided and Danelaw is introduced	926 AD Eastern England is conquered by Saxons	927 AD Athelstan, King of Wessex, takes York from the Vikings	939 AD Athelstan, first King of England, dies	954 AD Eric Bloodaxe, the last Viking king, is forced out of York
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