

## Vocabulary

<b>hinge</b>	A moveable joint with connects two things and allows them to move.
<b>joint</b>	The point at which two parts meet.
<b>criteria</b>	The standards we will judge our designs by.
<b>waterproof</b>	A material that does not let water through.
<b>reclaimed materials</b>	A material which has previously been used for something else.

## Sticky Knowledge

It is important to consider the correct materials for purpose. If something needs to stay dry in water, the materials should be waterproof.

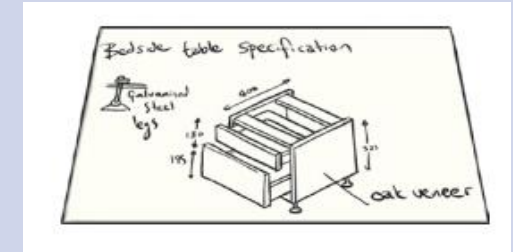
It is important to evaluate a design at every stage of a plan and be able to ensure it meets our design brief.

If two parts of a structure need to open and close, you will need to create a hinge.

## Previous Knowledge

- If you glue something together it will not move separately
- We can join parts of a structure in lots of different ways.

## Specification



A detailed description of the design and materials used to make something.

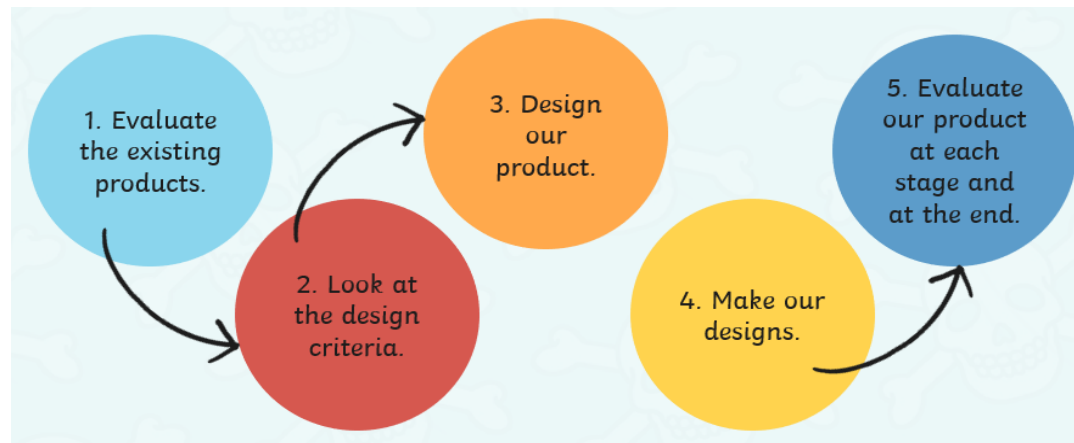
What is the need for the product?

Does your design meet the specification?

**Reading Challenge**  
Can you find some examples of junk art in a book?

## Key Questions:

- What is the best way to stick this part together?
- How can I make this part move?



### Vocabulary

score	Scratch the surface of the pot and what you are joining.
wedging	The technique used to expel air from the clay before it is shaped.
pinching	A clay hand building technique used to shape the material
malleable	When a material can be pressed into a shape without breaking or cracking.
durable	A material that is hard wearing and will last a long time.
blend	Use your finger or tool to smooth out any joins.
slip	Paint both surfaces with the glue like liquid and press together.

### Kathy Jeffers - New York, USA



Kathy Jeffers uses hand building techniques to create her pinch pots. Pinching is one of the oldest clay techniques. To add handles to her pot, Kathy uses the score, slip and blend technique

### Sticky Knowledge

Sculpting consists of four main elements: modelling, casting, constructing and assembling.

Clay can be manipulated to make 4 key shapes: sausage, slab, ball and ball with a hole.

Geometric forms are precise shapes using straight lines that can be named.

Organic forms are free flowing and curvy.

### Previous Knowledge

- A creation is something that is made.
- Each colour has its own name.

### Texture

- You can create texture by additive (building the clay up) and subtractive techniques (removing or indenting the surface).
- Texture can have meaning. The Nkisi Nkondi statue had texture designed to scare away bad spirits.

### Form

- A three dimensional object, which can be seen from all sides and picked up.
- A material must be able to hold its own shape in order to create a sculpture



### Key Questions:




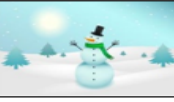
- Is this geometric or organic form?
- What tools can I use to sculpt?

### Reading Challenge

Create your own sculpture at home using instructions you've found online, or in a book!

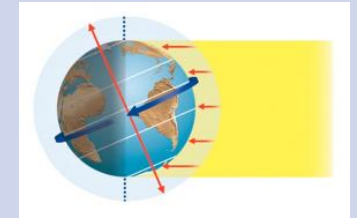
Vocabulary

equator	The time in the evening when the sun disappears.
Northern hemisphere	The part of the earth that is north of the equator.
Southern hemisphere	The part of the earth that is south of the equator.
weather vane	An instrument used for measuring the wind.
sundial	An instrument that shows the time by measuring shadows from the sun.

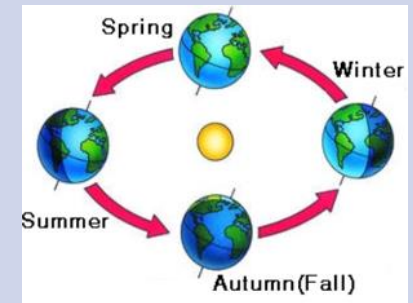
<p><b>Spring</b></p>  <p>In spring, the weather starts to get warmer after winter. Lots of baby animals are born and new flowers blossom. It takes place in March, April and May.</p>	<p><b>Summer</b></p>  <p>Summer is the warmest season of the year. Insects such as wasps and bees are around, and plants have lots of leaves. The summer months are June, July &amp; August.</p>
<p><b>Autumn</b></p>  <p>In autumn, the weather starts to get cooler after summer. Many types of leaves begin to turn brown and fall from trees. Autumn is September, October &amp; November</p>	<p><b>Winter</b></p>  <p>Winter is the coldest season of the year. Many trees have no leaves and many animals are hibernating. Winter is December, January &amp; February.</p>

Causes of the Seasons

The seasons are caused because our planet is on a tilt.



When a place is tilted towards the sun it is warmer (summer). When it is tilted away from the sun it is colder (winter).



Sticky Knowledge

Seasons are different times of the year when there are weather changes.

In the UK there are 4 seasons a year: spring, summer, autumn and winter.

The length of days change as the seasons change.

The seasons are different in some parts of the world.

Previous Knowledge

- The weather changes at different times of the year.
- The changes of the weather can be grouped and called seasons.

Key Questions:

- How are the seasons different?
- What season are we in now? What is next?


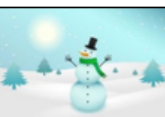
Reading Challenge

Write down the differences between each season.

# Year 1 – Summer 1- Science – Seasonal Changes

## Vocabulary

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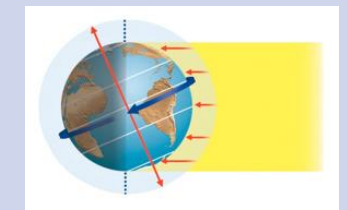
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## Sticky Knowledge

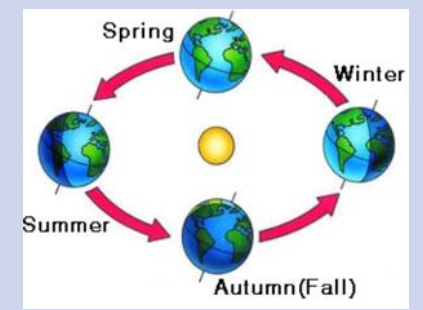
- Seasons are different times of the year when there are weather changes.
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- The seasons are different in some parts of the world.

## Causes of the Seasons

The seasons are caused because our planet is on a tilt.



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Year group: 1

History: A Historically Significant Person.

Term: Summer 1

## Vocabulary

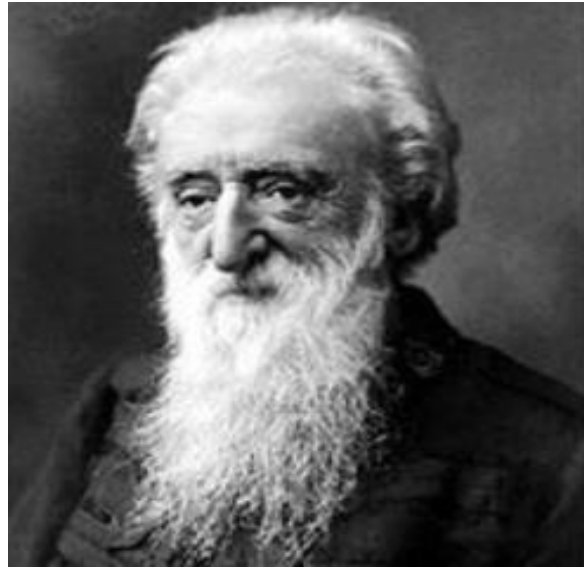
salvation	To deliver from harm.
poverty	Being extremely poor.
preacher	A person who spreads a message - usually religious.
charity	Giving help and money to those in need.
disadvantaged	To be in a worse position than others.
historically significant person	Someone whose effects are still felt today.

## Reading Challenge

Write down the differences between each season.

## Key questions:

What did Booth do to help people?  
How is he still helping today?



## Sticky Knowledge

William Booth was born in 1829 and died in 1912.

William Booth was born in Nottingham.

William was a preacher who started The Salvation Army to help disadvantaged people.

The Salvation Army is in 131 countries (most of the countries in the world) and runs charity shops and shelters and provides aid to the poor and homeless.

## Previous Knowledge

- There are important people around us.
- People carry out lots of important roles and jobs in society around us

## Who was William Booth?

William Booth was born in Nottingham, England, and was the second of five children.

His father's business failed, and the family fell into poverty.

They could no longer afford to send William to school, and so he was made an apprentice before he became a preacher and moved to London.

## What is the Salvation Army?

The Salvation Army, founded in 1865, is a Christian group that gives humanitarian aid to the poor, hungry, and those who have been affected by war.

## Vocabulary

Ritual	A ritual is a set of things done in a certain order.
Ceremony	A series of rituals performed for an occasion.
synagogue	A holy place for worshipping.
worship	To act in a way that shows great respect and love for someone.
kippah	A hat worn by Jewish men to cover their head.



## Sticky Knowledge

The Creation Story in which God created the world tells us that he rests on the seventh day. This is the Sabbath.

The week starts on Sunday. The Saturday is the 7<sup>th</sup> day and a day of rest. There is to be no work done on this day.

Honouring the Sabbath forms part of the 10 Commandments.

Shabbat is celebrated both at home and in synagogues by worshipping and having an important meal.

Jews wear a skull cap called a kippah. This is usually worn by men as a sign of respect to God.

**Previous Knowledge:**

- Not everybody has the same religion.
- Some people believe that God created the world.

## Is Shabbat important to Jewish children?

One of the reasons that Shabbat is so important is that it is a time for families to come together. During Shabbat, family members unite in their homes in the presence of God. This is a really special experience for Jewish people.

**Key Questions:**

- Where do Jewish people worship?
- How do Jewish people worship?

## Vocabulary

code	Instructions written using symbols and words for a computer to follow.
action	Types of commands which are run on an object.
command	A single instruction in a computer game.
event	Something that causes a block of code to be run.
run	To cause the instructions in a program to be carried out.
input	Information going into a computer.



## Sticky Knowledge

Coding is a way of writing instructions so a computer can follow them.

You need to complete a design before you code to ensure your program will run correctly.

We can make objects move using code both in real life (Bee Bots) and on computers.

Finding a problem and fixing the code is called debugging.

### Previous Knowledge

Algorithms are a set of instructions.  
Instructions need to be specific to work.

### Reading Challenge

A recipe is essentially an algorithm; can you follow an algorithm to make something? A cake? Origami?

## Purple Mash



Free code chimp

## Bee Bots



### Key Questions:

- What is the quickest way to debug this?
- Are my algorithms clear enough?



## Vocabulary

<b>belong</b>	To be a member of a group or family.
<b>qualities</b>	The way someone behaves or how they are.
<b>greeting</b>	A welcome.
<b>self belief</b>	Trust or confidence in ourselves.
<b>praise</b>	To tell someone how well they have done.
<b>confidence</b>	To know you are good at something.

### Key Questions:

- How am I incredible?
- Where do I belong?



## Sticky Knowledge

We know what a good friend is to us and that this is different for everyone.

Greeting our friends with hugs is only okay if everyone is happy.

If I need help in school I can speak to my friends and my teachers.

I can be proud of the things I have done and how hard I try.

### Previous Knowledge

- All families are different.
- I am a valuable individual.

## Families

Families can look very different to each other. It does not matter who makes up your family, they are special and they love each other.



## Incredible

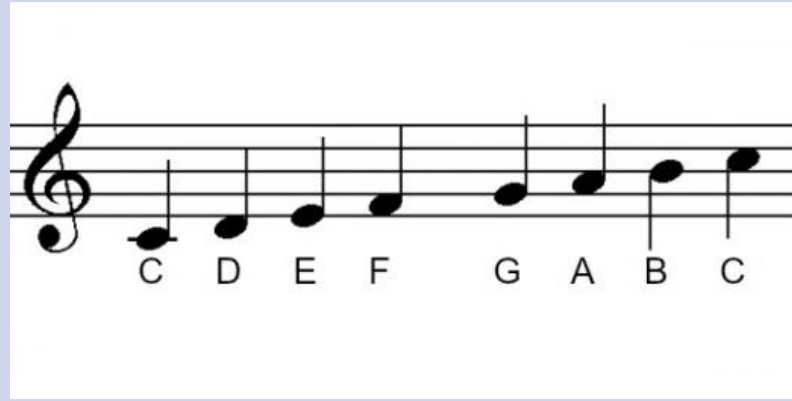
Everyone is incredible in their own way.  
Everyone is special!



## Key Vocabulary

Musical symbols	Little symbols which tell us how long a note is, and what pitch it is.
Notes	Individual things we play in music.
Imagination	Being creative and thinking of different ways to do things.
Improvise	To make something up on the spot.
Compose	To make something.

## Music can be written using notes.



## Sticky Knowledge

Music can allow you to close your eyes and disappear into your imagination.

Music can be written down using symbols called notes.

Some notes sound nicer when played together than others.

## Previous Knowledge:

- Musical notes go from A to G.
- Glockenspiels should be played carefully to sound the best.

## Improvise

To make up a tune and play it on the spot. There is an assumption that it can never be recreated.

## Glockenspiels



## Key Questions:

- Which notes go well together?
- How can I remember my compositions?