

Wednesday 12th November

Morning Challenge

Section 1

Round the following numbers to the nearest 1 million

7 231 723 →

2 500 000 →

6 499 999 →

Section 2

Use this Carroll diagram to write the common factors of 12 and 15.

	Factors of 12	Not Factors of 12
Factors of 15		
Not factors of 15		

Section 3

Double a number is 74.
What is the number?

Section 4

Calculate:

$$\frac{1}{3} \times \frac{1}{2} =$$

$$\frac{1}{2} \times \frac{1}{4} =$$

$$\frac{1}{5} \times \frac{1}{3} =$$

Wednesday 12th November

TBAT: join a prefix ending in a vowel to a root word beginning with a vowel.

Explain why each sentence is incorrect.

1. I love ice cream, it's my favourite treat.

2. My dog Hugo likes to chase squirrels.

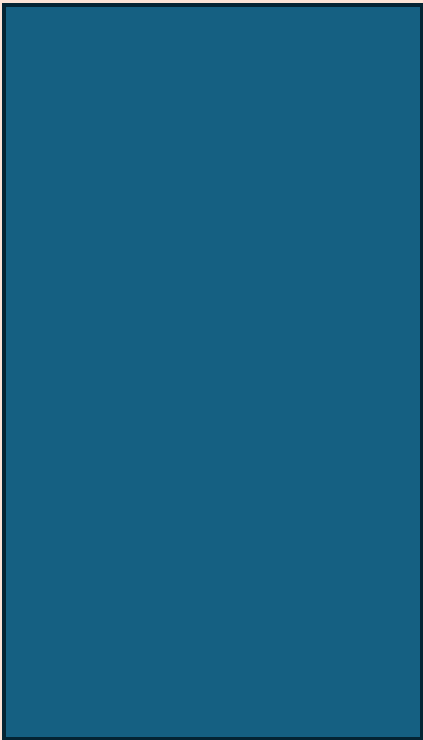
3. We brought apples, and bananas and oranges.

Challenge – Write a sentence including a comma used to separate a main clause and a subordinate clause.

Wednesday 12th November

TBAT: join a prefix ending in a vowel to a root word beginning with a vowel.

Guess the spelling word based on the clues.

- 
1. To work together with someone to achieve a common goal.
 2. To share ownership of something with one or more people.
 3. A person who writes something together with one or more others.
 4. To go back into a place or situation.
 5. To teach someone again, often to change their beliefs or skills.
 6. To look at something again carefully.
 7. To give new energy or strength.

Challenge – Use two of the spellings in a sentence including commas for parenthesis.

12.11.25

TBAT: calculate the perimeter and area of shapes.

3 in 3

1. $4562 + 103.8 =$

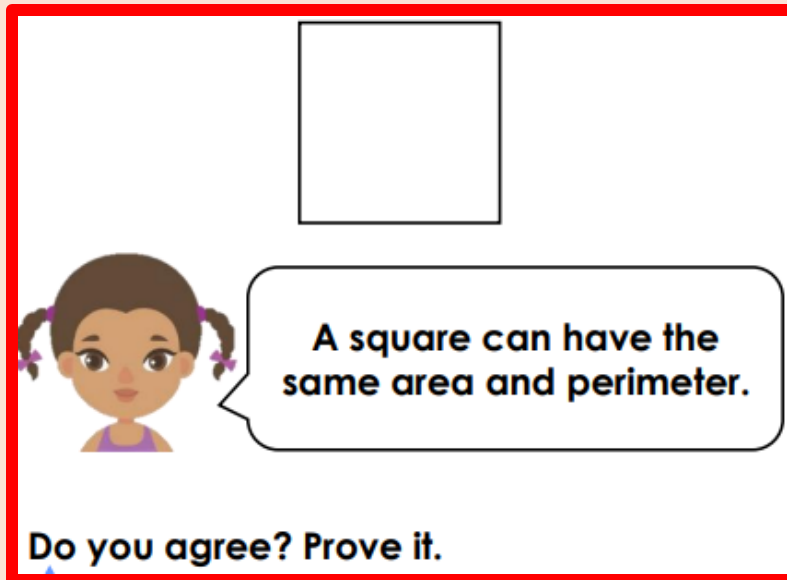
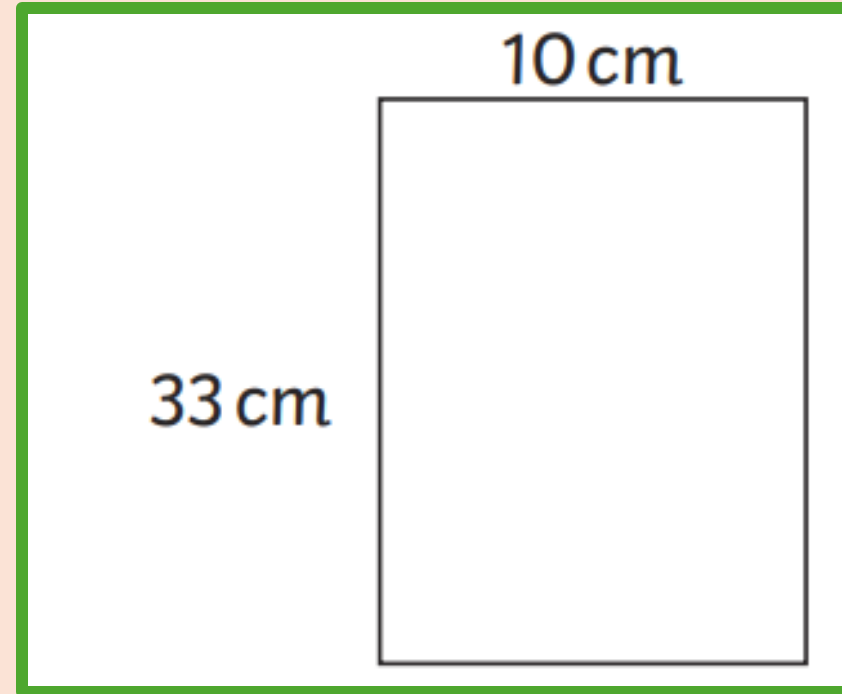
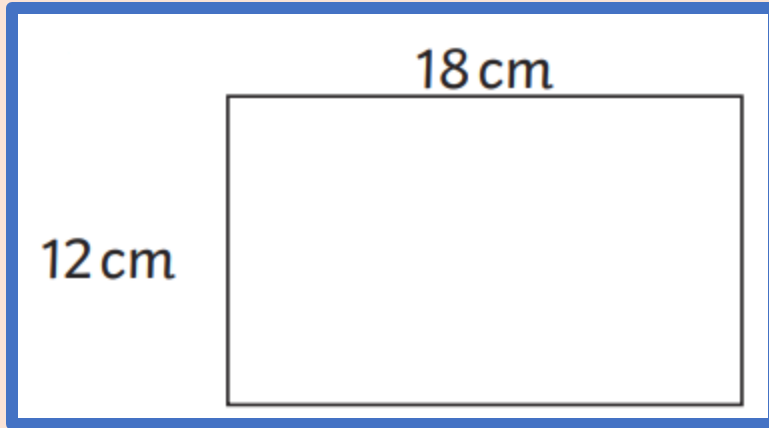
2. $\frac{4}{5} + \frac{2}{3} =$

3. $145 \times 23 =$

Challenge - Rectangles have the same area and perimeter because you just multiply the length by width. Do you agree? Prove it.

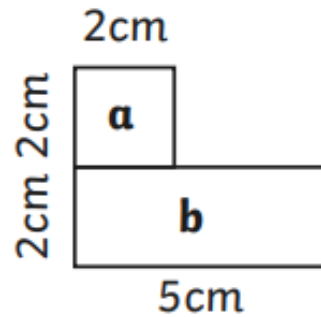
12.11.25

TBAT: calculate the perimeter and area of shapes.



12.11.25

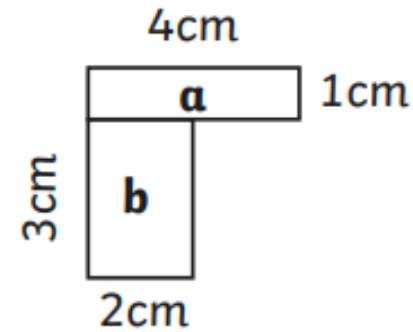
TBAT: calculate the perimeter and area of shapes.



Area a: _____ cm^2

Area b: _____ cm^2

Total: _____ cm^2



Area a: _____ cm^2

Area b: _____ cm^2

Total: _____ cm^2

A shape has a perimeter of 82cm.

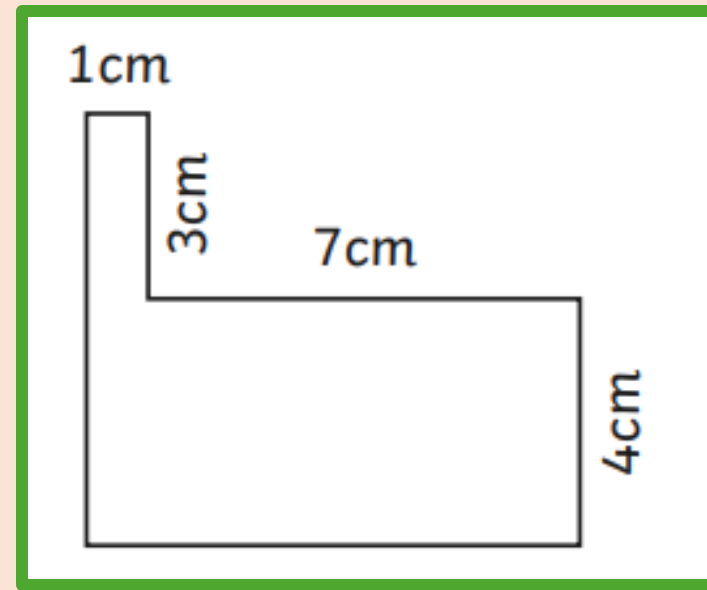
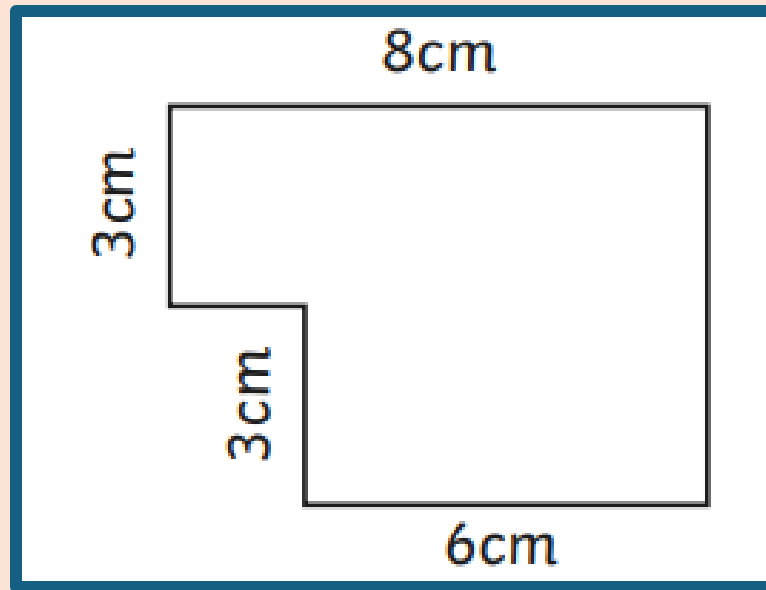
Perimeter = 82cm

What is the largest area the shape could have?

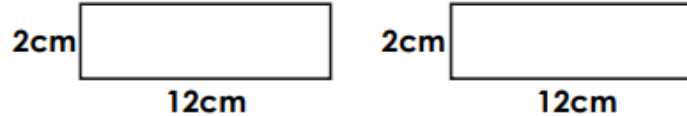
What is the smallest area the shape could have?

12.11.25

TBAT: calculate the perimeter and area of shapes.

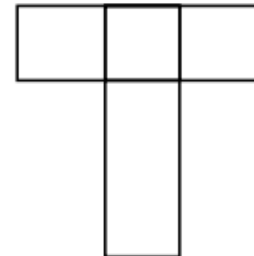


4b. Hayley draws two equal rectangles.



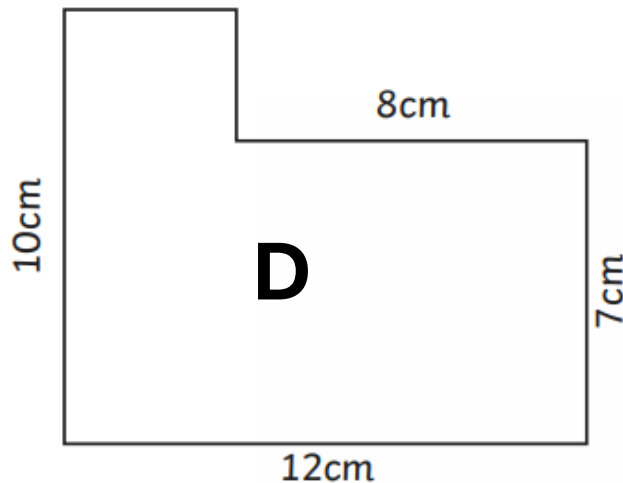
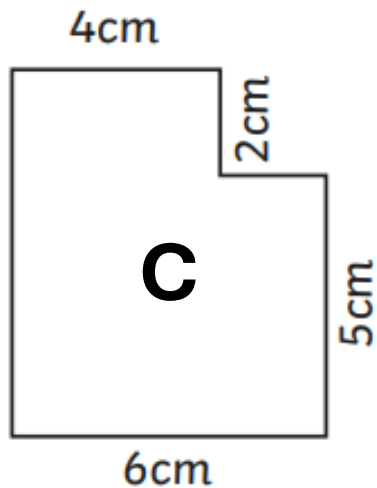
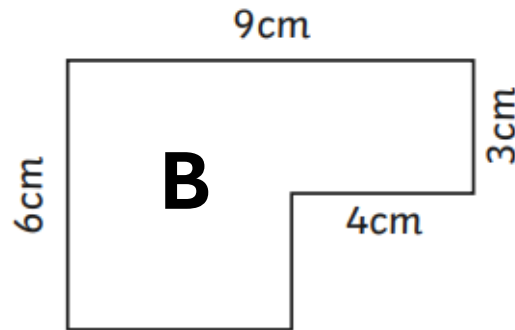
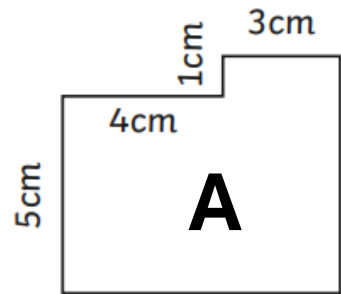
She puts them together to make a new shape.

Using the correct formulae, find the area and perimeter of the new shape.



12.11.25

TBAT: calculate the perimeter and area of shapes.



Challenge

Brendan says,



A rectangle will always have a different area and perimeter.

Do you agree? Prove it.

Mastery Challenge

A shape has a perimeter of 80.5cm.

Perimeter = 80.5cm

What is the largest area the shape could have?

What is the smallest area the shape could have?

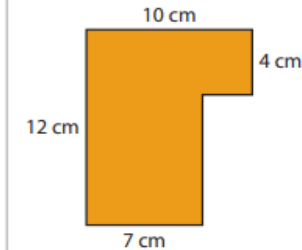
Mastery with Greater Depth

Mastery with Greater Depth

Sami worked out the area of the orange shape as $10 \times 4 + 8 \times 7 = 96 \text{ cm}^2$.

Razina worked out the area as $12 \times 7 + 3 \times 4 = 96 \text{ cm}^2$.

Lukas worked out the area as $10 \times 10 - 2 \times 2 = 96 \text{ cm}^2$.



Are you convinced by Sami, Razina or Lukas's reasoning?

Explain your answer.

Wednesday 12th November

TBAT: explore the features of a letter.

3 in 3

1. Insert the missing **full stops** and **capital letters** into the passage below to make two correctly punctuated sentences.

most of the dogs in the class barked excitedly at the trainer only one dog didn't join in

2. Tick **one** box in each row to show whether the sentence is written in the **past** or **present perfect tense**.

Sentence	Past perfect tense	Present perfect tense
1) I have collected most of the cards.		
2) We had finished decorating the hall.		
3) She has lost all her pens and pencils.		

3. Complete the table by adding a **suffix** to each noun to make an **adjective**.

Noun	Adjective
danger	
misery	
star	

CHALLENGE: List nouns that you can turn into adjectives by adding 'y'.

Wednesday 12th November

TBAT: explore the features of a letter.

What are the features of a letter?

What is the purpose of a letter?

What are the key differences in a formal letter and an informal letter?

Writing to a friend - BBC Bitesize

Wednesday 12th November

TBAT: explore the features of a letter.

Stanley Yelnats

Camp Green Lake

Texas, USA

11th November 2025

Dear Mom,

Today was my first day at camp and I already made some friends. We've been out on the lake all day, so I'm pretty tired. Once I pass the swimming test, I'll get to learn how to water-ski!

The camp is really big and sunny, and the lake is huge. We spent the afternoon paddling around and playing games on the shore. It's nice to be outdoors so much, even if it's a bit hot. I've got my own space in the tent and it's actually pretty comfy. There's even a fan to keep us cool at night!

The other boys are really friendly. One of them is called X-Ray - he's super funny - and another one, Armpit, helped me carry my bag. I think we're going to get along well. We've already started joking around and sharing stories.

The food's not bad either. We had beans for dinner but they were a little spicy. I'm hoping tomorrow we'll get something different, maybe burgers or tacos. I'll let you know!

Don't worry about me; I'm doing great and I'm excited to learn new things. I'll write again soon and tell you all about my adventures.

Love,

Stanley

Wednesday 12th November

TBAT: explore the features of a letter.

Stanley Yelnats

Camp Green Lake

Texas, USA

11th November 2025

Glue the letter in the centre of your page.

Annotate the letter.

What features can you spot?

What is the purpose of each feature?

Challenge – Using some of the features, write an introduction paragraph. Include a relative clause.

Dear Mom,

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Love,

Stanley

Wednesday 12th November

KQ – Can I explain how Sikhs have contributed to British history?

Quick Quiz

1 What do many Hindus believe Brahman is? (Tick **1** correct answer)

- ☐ a festival
- ☐ the one supreme spirit
- ☐ a famous temple

2 What symbol represents Brahman in Hindu Dharma? (Tick **1** correct answer)

- ☐ a bell
- ☐ a flower
- ☐ aum

3 What is Hindu worship called? (Tick **1** correct answer)

- ☐ puja
- ☐ yoga
- ☐ karma

Challenge

What do Hindus believe happens after this life? (Tick **1** correct answer)

- ☐ you go to sleep forever
- ☐ you become a star
- ☐ you are reborn

Wednesday 12th November

KQ – Can I explain how Sikhs have contributed to British history?

What religion do Sikhs belong to?

What religion do Hindus belong to?

If you could write one rule for all religions to follow, what would it be and why?

Keywords

community

a group of people who share common interests and values

service

the act of helping or doing work for others, often to support a community or cause

British Empire

a group of countries that were controlled or ruled by Britain

gurdwara

a Sikh place of worship, where people gather to pray, learn, and share meals together

How have Sikhs contributed to British history?



Izzy



Alex

Have Sikh people always been in the UK, Mandeep?

The Sikh religion started in India. Guru Nanak lived there and became a teacher that many Hindu and Muslim people followed.

So originally, Sikhs lived in India, which was part of the **British Empire** until 1947.



Mandeep

How have Sikhs contributed to British history?



Abu Castor / Alamy Stock Photo

When Britain needed help, many Sikh soldiers joined the British Indian Army to **serve** and **protect** others — just like my grandad.



Mandeep

My grandad fought in World War I with the **British Indian Army**. He travelled from Punjab to France. Many Sikh soldiers fought bravely, and over **80,000 died** in the two World Wars.

The Sikh **community** believes in **serving others**, and my grandad always said that by helping in the army, he was doing his **duty** to protect people and live by our **faith**.



Mandeep

How have Sikhs contributed to British history?

Izzy and Alex continue to talk to one another.



Izzy

I didn't realise that Sikhs came and helped us fight in the world wars for the UK.

Me neither! They travelled a really long way to help our country. I wonder if there are other ways Sikh people have helped us?



Alex

Ria explains how many Sikh men and women have made a big impact in healthcare.

While Sikh soldiers were **fighting** on the front lines, others helped in **hospitals** as **nurses**. Their bravery and **service** contributed hugely to British history.

My grandparents told me stories about how Sikhs' **service** was a **big part** of the British war effort. After the wars, many Sikhs **continued to serve** by working in hospitals, schools, and supporting local **communities** across Britain.



Ria

My family helped to **rebuild** Britain by working in factories, transport, and hospitals. These jobs were very important for keeping the **country running** while the country was still **recovering** from the damage caused by the war.

Sikh workers helped repair buildings, run public **services**, and support local **communities**. Their hard work **helped shape modern Britain**.



Mandeep

Izzy and Alex are discussing what to do next.



Izzy

How could we find out about how large the Sikh **community** is in the UK?

What about looking at the census? It is a survey of everyone in England and Wales. It asked people 'What is their religion?'. That will give us some data.



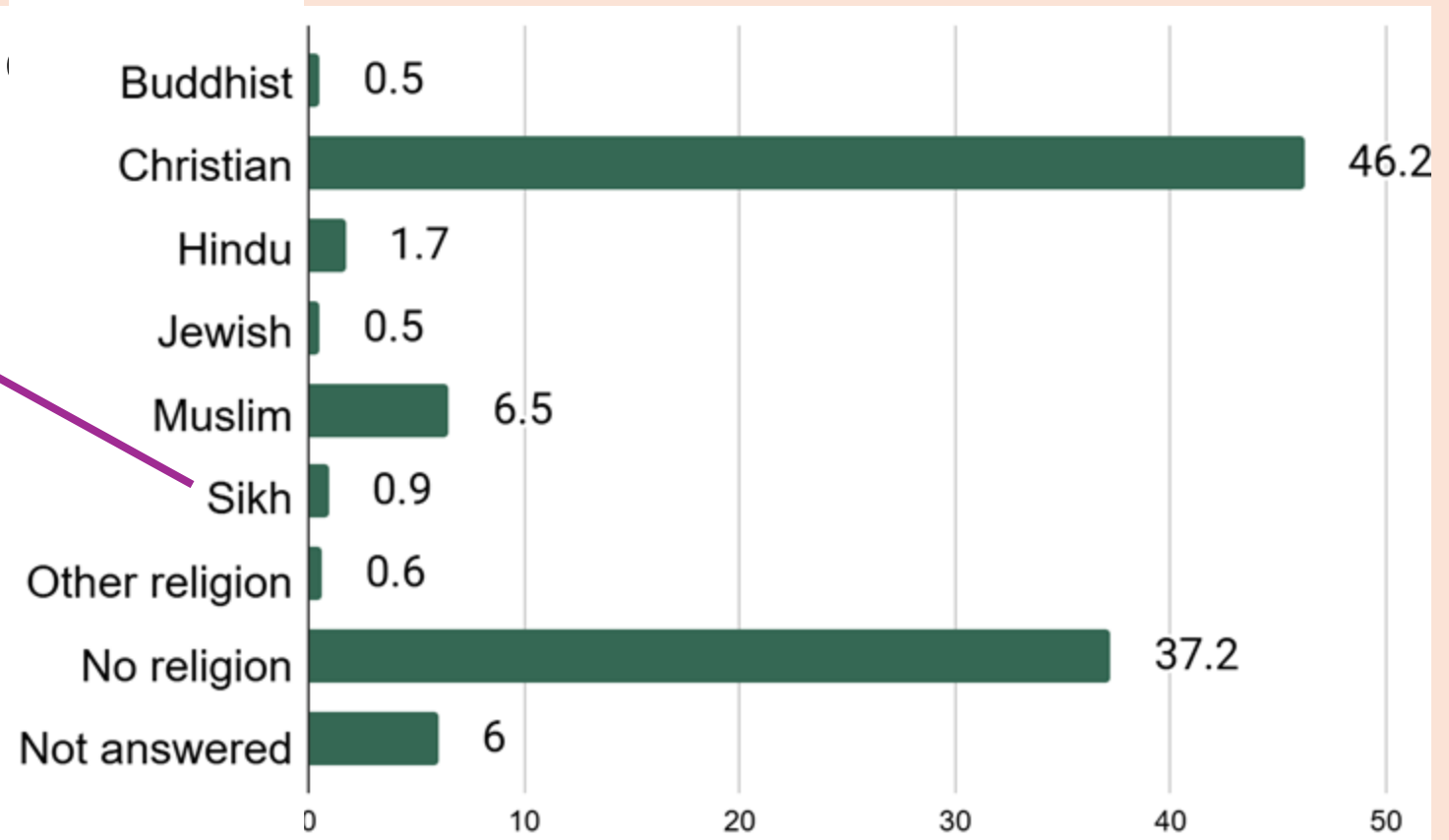
Alex

Here is the census data for 2021:

What percentage of people identified as Sikhs?

0.9% of people in England and Wales are Sikhs.

This is a relatively small percentage, but it still represents a significant number of people - 525,865 in total.



Why do some places have large Sikh communities?

Here is a map of part of England and Wales. It uses 2021 census data to show where Sikhs live.

The darker the colour on the map, the larger the Sikh **community** that can be found there.

What do you notice from looking at this map?

Where do most Sikhs live?



Source: Census 2021 from the Office for National Statistics

Why do some places have large Sikh communities?



Izzy

I can see that most Sikh **communities** are in cities such as Birmingham, Wolverhampton, London, and close to Leeds.



Alex

This is really interesting. The data tells us where Sikhs live, but not why they live there. I wonder how we could find that out?



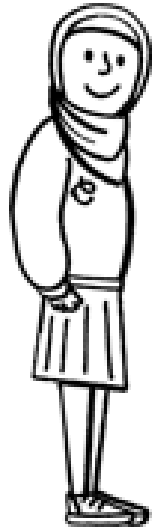
- The Sikh **community** has historic links with the UK, connected to the **British Empire**.
- Sikh soldiers were heavily involved in fighting for the **British Empire**. Their **service** cost many lives during the World Wars.
- Sikhs comprise 0.9% of the population of England and Wales according to the 2021 census.
- There are historic Sikh **communities** in London and the West Midlands.
- Many Sikh families choose to live in areas where they can practise their faith and be part of a **community**.

Wednesday 12th November

KQ – Can I explain how Sikhs have contributed to British history?

Your task:

Aisha is thinking about Sikhs and British history.



Aisha

Sikhs' contribution to British history was to fight for the **British Empire** in the Second World War.

Is Aisha correct? Is that the only contribution?

What evidence from the case studies can you use to make your argument?

Challenge

I'm not sure why Sikhs often choose to live in the **communities** they do?

How would you explain an answer to this question?

Wednesday 12th November

KQ – Can I explain how Sikhs have contributed to British history?

Exit Quiz

- 1 Sikh soldiers played an important role during the two World _____.
(Fill in the blank)
- 2 According to the 2021 _____, 0.9% of people in England and Wales are Sikh. (Fill in the blank)
- 3 Where are historic Sikh communities found in the UK? (Tick 1 correct answer)
 - ☐ Cornwall and Kent
 - ☐ London and the West Midlands
 - ☐ York and Cumbria

Challenge

Why have many Sikhs settled in the UK? (Tick 1 correct answer)

- ☐ for the beaches
- ☐ to find treasure
- ☐ to help rebuild after the war

Why is it wrong to say that all Sikhs living in the UK only recently moved here? (Tick 1 correct answer)

- ☐ some are from America
- ☐ they live in tents
- ☐ they've been here for generations

Wednesday 12th November

KQ – Can I build and test a range of simple circuits?

Quick Quiz

1 Which of these rely on electricity to work? (Tick 2 correct answers)



- ☐ home lighting
- ☐ yo-yo
- ☐ music keyboard
- ☐ in-line skates

2 Tumble dryers, microwaves and lamps are examples of electrical ...

3 An electric _____ is a group of components joined together by wires and include a cell or battery. (Fill in the blank)

Challenge

4 What are the basic elements of a circuit called? (Tick 1 correct answer)

- ☐ mini-machines
- ☐ components
- ☐ parts
- ☐ contributors

Wednesday 12th November

KQ – Can I build and test a range of simple circuits?

What is this?



What is this?



What is the scientific drawing for a cell?

Keywords

circuit

An electrical **circuit** is a closed loop or path that electricity can flow through to make a component work.

component

A **component** is a device in a circuit that has a specific function.

cell

A **cell** is a single unit that is needed for electricity to flow around a circuit.

battery

When two or more cells are used together, it is called a **battery**.

terminal

Cells have a negative and positive **terminal**.

Electricity and **circuits** are everywhere and are a part of most of our daily lives.

Do you know where you use electricity and electrical circuits each day?

Electricity flows safely all around us, allowing us to heat and light our homes and to use appliances where we need them.



home lighting



a plug connected to
mains electricity



a fridge

Izzy wants to build an electrical **circuit**.



You will need **components** to build a circuit.

Alex

I can't remember what components are.



Izzy

The basic elements of an electrical circuit are called components.

Can you identify any of these components?



Some of the **components** in a simple **circuit** are:



cell



bulb
(in a holder)



wire



buzzer



motor



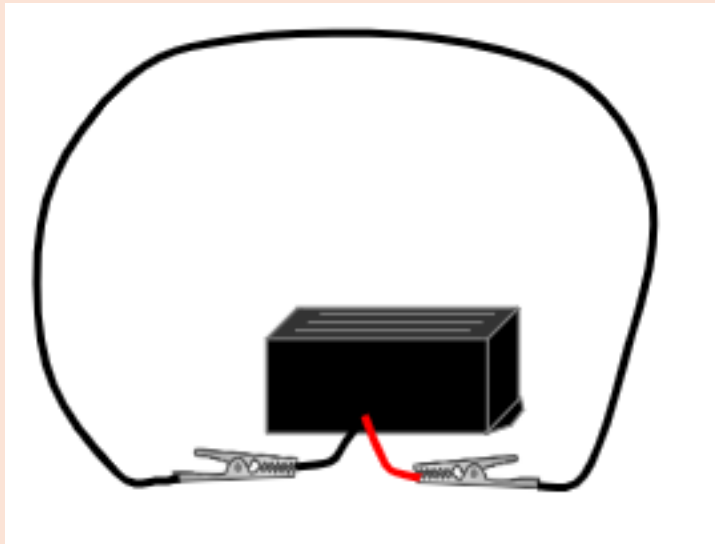
switch



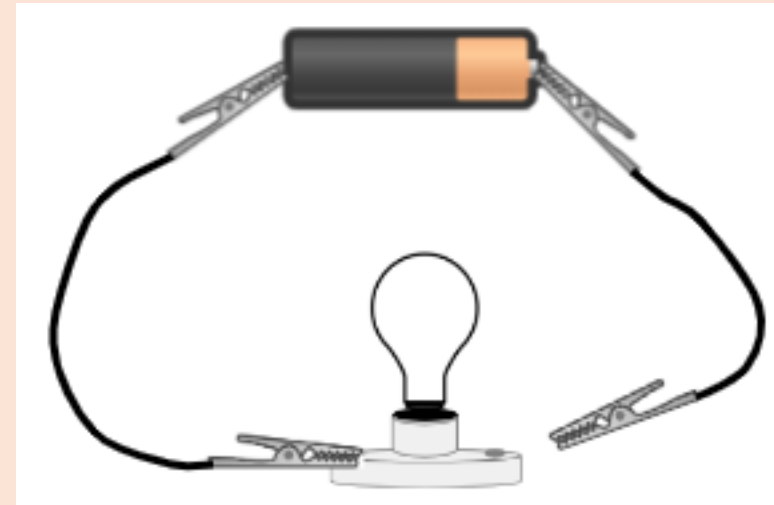
Not all of my **circuits** worked.

Izzy

Can you explain what was wrong with each of these circuits?



circuit 1



circuit 2

When a **circuit** is complete, electricity can flow around the circuit and make **components** work.



Alex

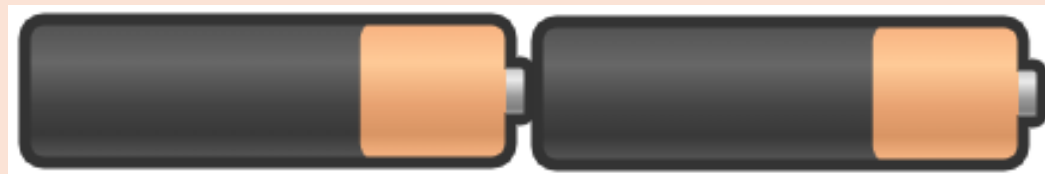
Remember, an electrical circuit must have a cell or battery.

cell



When we have one of these units, we call it a cell.

battery of two cells



When there are more than one working together, we call it a battery.

Electricity passes around a circuit when a cell or battery gives a push to start the flow of electricity.



Izzy's sister

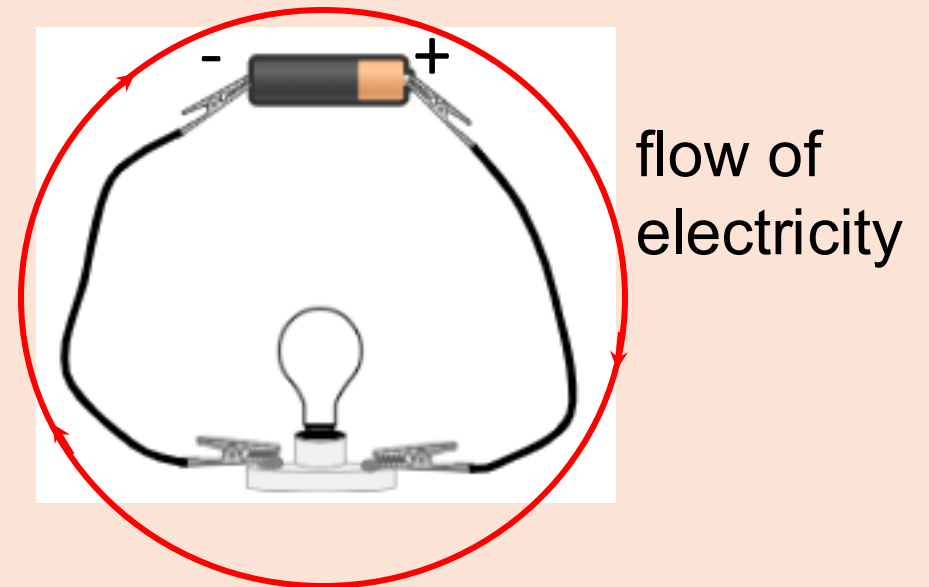
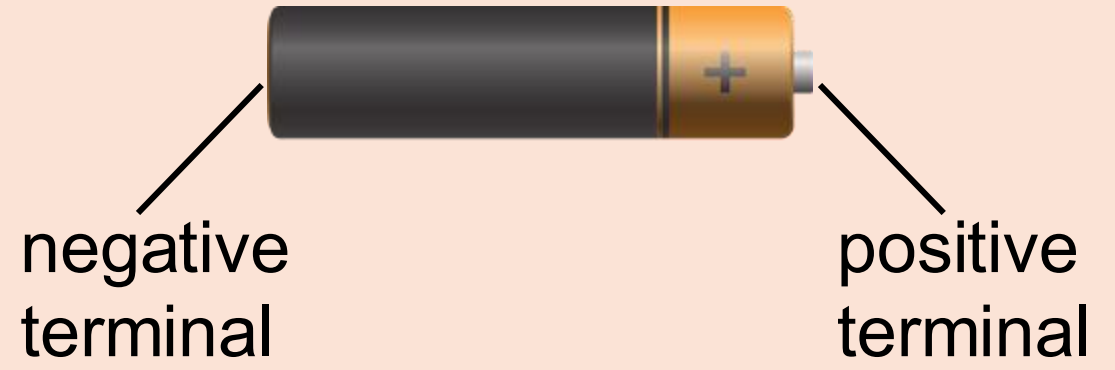
The cell or battery gives the push to start the movement or flow of electricity.

Cells and **batteries** have two ends called **terminals**.

One of these is a positive (+) terminal and one a negative (-) terminal.

Electricity flows from the positive terminal to the negative terminal of the cell or battery.

The flow of electricity is pushed by the cell or battery, through the wires, to the other **components** in the circuit.



Just like cells, all **components** have two **terminals**, where the component is connected to the rest of a **circuit**.



For a buzzer:

negative (-) terminal is black

positive (+) terminal is red

buzzer

Buzzers only work if their positive terminal is connected to the positive terminal of the cell or battery.

The basic elements of an electrical circuit are called components.

A complete electrical circuit is made is when all components are connected together correctly, and there are no breaks in the circuit.

A flow of electricity moves from the positive terminal to the negative terminal of the cell or battery.

The flow of electricity is pushed by the cell or battery, through the wires and other components in the circuit.

Wednesday 12th November
KQ – Can I build and test a range of simple circuits?

Task 1

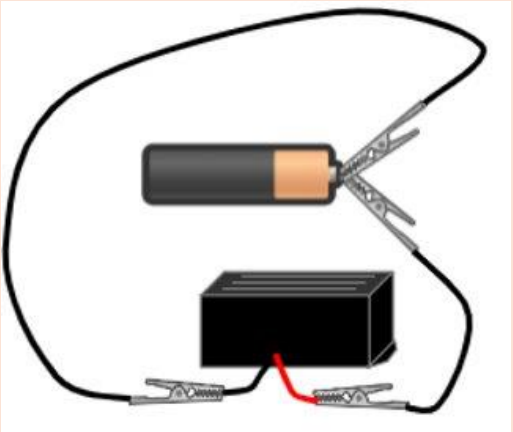
- Draw a simple scientific circuit using the symbols here:
- Make the circuit using the equipment.
- Do this for two circuits.

Task 2

- Draw this circuit:
- One battery, one bulb, one buzzer and wires.

Component	Symbol	Purpose
Cell (Battery)		Provides electrical energy
Power supply		Alternative to using cells
Wire		Allows current to travel
Bulb/light		Converts electrical energy into heat and light
Motor		Converts electrical energy into movement energy
Buzzer		Converts electrical energy into sound energy
Switch		Allows circuit to be opened or closed

Challenge – Why is this circuit not working?



Wednesday 12th November

KQ – Can I build and test a range of simple circuits?

Exit Quiz

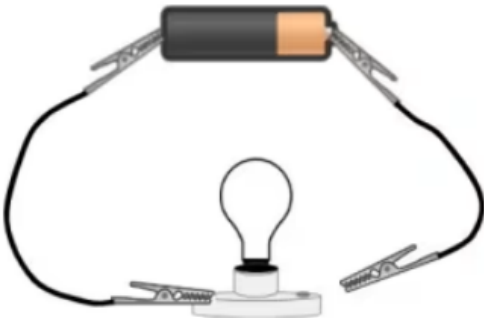
1 The basic elements of an electrical circuit are called ...

2 A complete electrical _____ is made is when all components are connected together correctly and there are no breaks. (Fill in the blank)

3 What are the names for the two ends of a cell or battery? (Tick 1 correct answer)

- ☐ north pole and south pole
- ☐ positive terminal and negative terminal
- ☐ north terminal and south terminal
- ☐ positive end and negative end

4 What is wrong with this circuit? (Tick 1 correct answer)



- ☐ There is no cell.
- ☐ The bulb is connected the wrong way round.
- ☐ There is a break in the circuit.

Challenge

In which direction does electricity flow around a circuit? (Tick 1 correct answer)

- ☐ from the negative terminal to the positive terminal
- ☐ from the components and round the wires
- ☐ from the wires to the components
- ☐ from the positive terminal to the negative terminal

12.11.25

Anti-Bullying Week

Anti-Bullying Week 2025: Power for Good

What do you think 'Power for Good' means?



ANTI-BULLYING WEEK 2025

**POWER
FOR
GOOD**

#ANTIBULLYINGWEEK

Monday 10th to
Friday 14th November



**Odd
Socks
Day**



Monday 10th
November



ANTI-BULLYING
ALLIANCE



**HOW CONFIDENT DO
YOU FEEL TO SPEAK
OUT?**



BYSTANDER MYTHS



**It's not bullying
if it's online.**

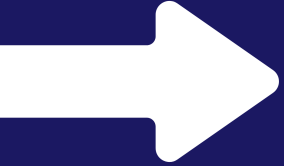


**It's not my
problem**

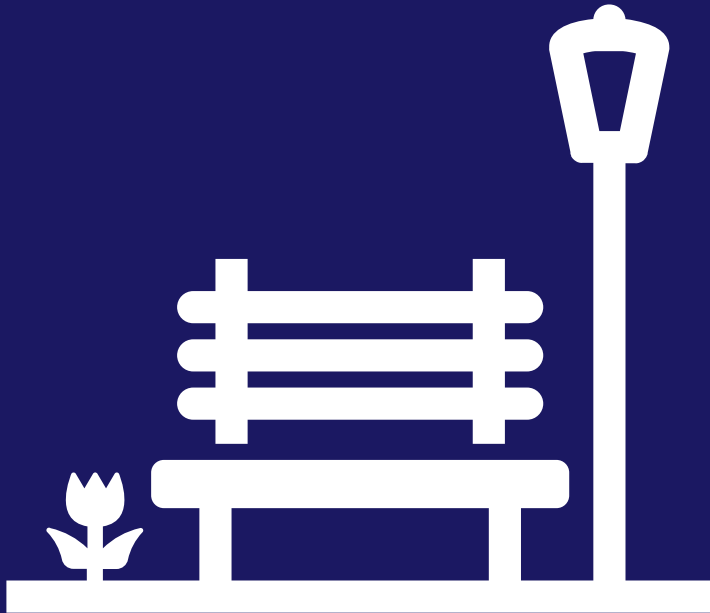


**I'll get bullied if I
help**

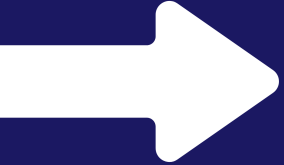
SCENARIO 1



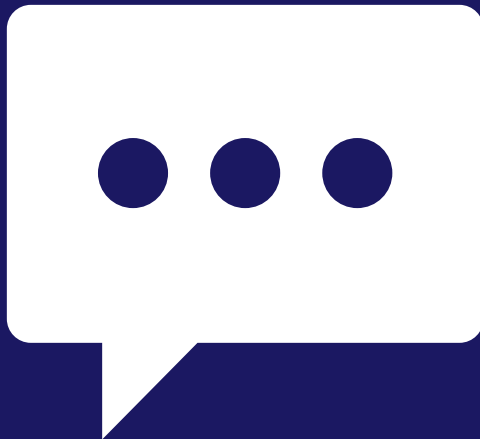
The empty bench: At playtime, someone is sitting alone on the bench and looking sad.



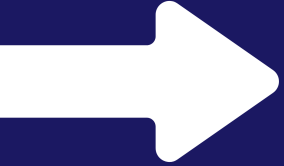
SCENARIO 2



The nickname: A child keeps being called a name they don't like. Others start copying it.



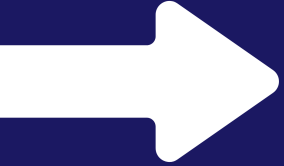
SCENARIO 3



The bus line: In the line for the bus, one child is pushed to the back and told “you’re too slow.”



SCENARIO 4



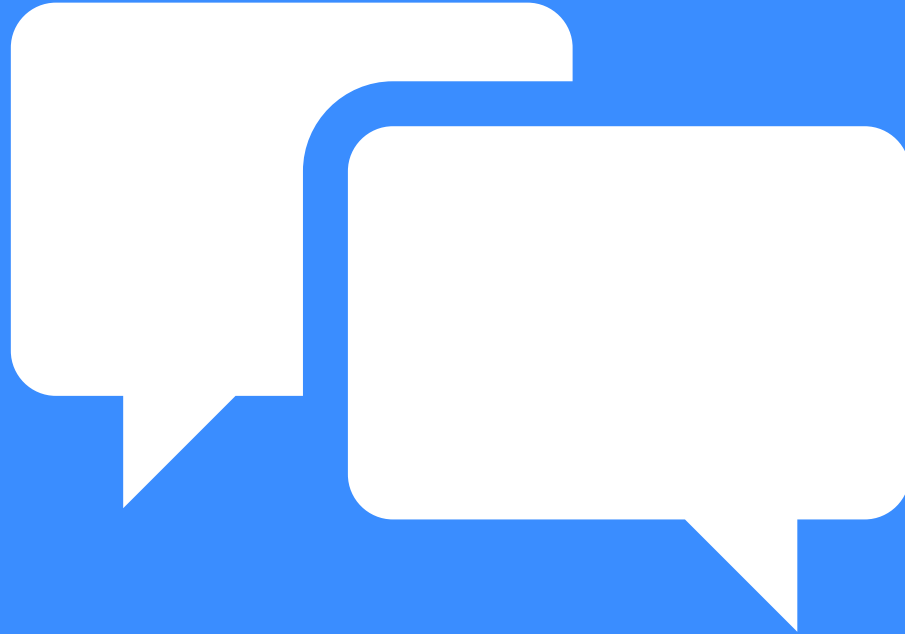
The playground chase: A child doesn't want to play a chasing game but others keep running after them.



ONE SMALL THING I CAN DO



Anti-Bullying Alliance's Definition:



One way I can use my power for good is...

RECAP





ANTI-BULLYING WEEK 2025

**POWER
FOR
GOOD**

#ANTIBULLYINGWEEK

Monday 10th to
Friday 14th November



**Odd
Socks
Day**



Monday 10th
November



ANTI-BULLYING
ALLIANCE



12.11.25

Anti-Bullying Week

Anti-Bullying Week 2025: Power for Good

Design a Superhero who will use 'A Power for Good'. Think of scenarios and how this superhero can give advice to younger children on what to do.

