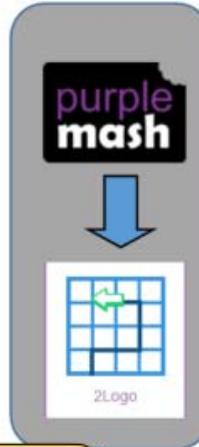


Unit: 4.5 – Logo

Key Learning

- To learn the structure of the coding language of Logo.
- To input simple instructions in Logo.
- Using 2Logo to create letter shapes.
- To use the Repeat function in Logo to create shapes.
- To use and build procedures in Logo.

Key Resources



Key Vocabulary

- LOGO – a text-based coding language used to control an on-screen turtle to create mathematical patterns.
- BK – move backwards a distance of units.
- FD – move forward a distance of units.
- RT – turn right a given number of degrees.
- LT – turn left a given number of degrees.
- REPEAT – repeat a set of instructions a specified number of times.
- SETPC – set pen colour to a given colour.
- SETPS – set the pen thickness.
- PU – lift the pen up off the screen.
- PD - put the pen back down on the screen.

Key Images

Open, save and share work

Choose the turtle style

Choose a background

Switch the grid on and off

Press and the logo mouse follows the instructions

Reset the mouse to the start position

Change the speed at which the mouse moves.

Write the Logo instructions here

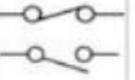
Key Questions

What is Logo?

Logo is a text-based coding language used to control an on-screen turtle to create mathematical patterns.

Previous knowledge.
New learning

Science Knowledge Organiser – Year 4 Physics: Electricity

Some components of an electric circuit					
	Wire	cell	switch	buzzer	lamp
Circuit Diagram					
Picture					

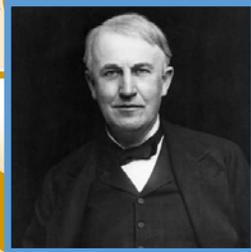
What I will learn in this unit.

- To be able to identify common appliances that run on electricity
- To be able to construct a simple series electrical circuit, identifying and naming its basic parts
- To be able to identify whether or not a lamp will light in a simple series circuit, based on whether the lamp is part of a complete loop with a battery
- To be able to recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- To be able to recognise some common conductors and insulators, and associated metals with being good conductors

Some materials let electricity pass through them easily. These are known as **conductors**. Many metals are good electrical conductors such as copper, iron and steel.

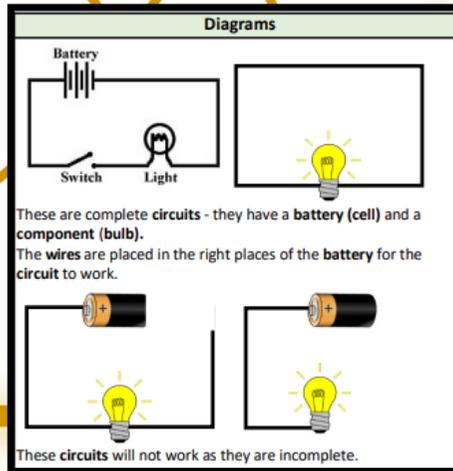


Some materials do **not** let electricity pass through them. These materials are known as **insulators**. Plastic, wood, glass and rubber are good electrical insulators.

Scientist study: Thomas Edison (1847 - America)

Thomas Alva Edison was a **famous American inventor**. He is best known for inventing 'domestic' lightbulbs to go in houses, and the electric power system that allows them to work. He came up with over 1000 successful inventions in his lifetime.



- Some **appliances** use **batteries** and some use **mains electricity**.
- **Batteries** come in different sizes depending on how much and for how long the **appliance** is used.
- **Common appliances** that use **electricity**.



Switches can be used to open or close a **circuit**. When off, a switch 'breaks' the **circuit** to stop the flow of **electricity**. When on, a switch 'completes' the circuit and allows the **electricity** to flow.



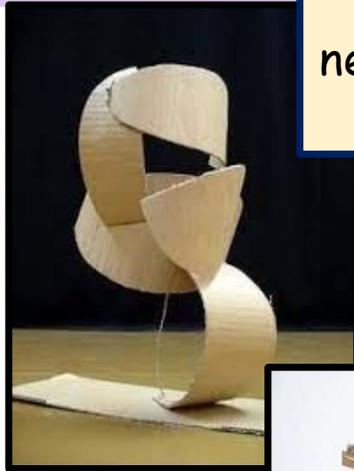
Word	Definition
components	The parts that something is made of
voltage	A collection of cells
batteries	Small device that provides power for some electrical items
cell	Converts energy to electricity
circuit	A complete route which an electric current can flow around
current	A flow of electricity through a wire or circuit
short circuit	An electrical circuit in a device of lower resistance
resistance	A measure of its opposition to the flow of electric current
conductor	A substance that heat or electricity can pass through
insulate	A non-conductor of electricity or heat



Art Knowledge Organiser - Year 4 Sculpture

Sculptures are 3D art forms that can be made from different materials including natural, man-made and recycled

Sculptures need a base and lasting joins

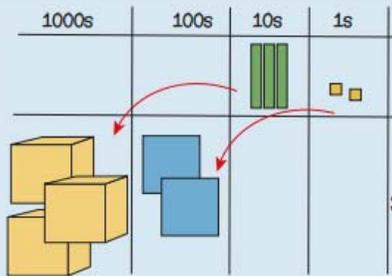


Famous artist!



Antony Gormley
1950-
British sculptor
Created the Angel of the North

Key Vocabulary: 3D form, materials, natural, man-made, recycled, construct, support, bend, shape, manipulate, join



3000 is one hundred times greater than 30
2 multiplied by one hundred is 200

32
 $\times 100$
3200

70 x 6 = ?
If I know 7 x 6 = 42
then I know 70 x 6 = 420
because it is ten times greater

$$7 \times 6 = 42$$



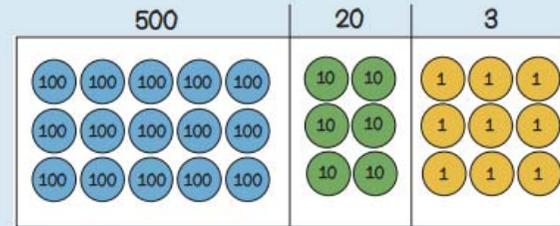
$$7 \times 10 \times 6 = 42 \times 10 = 420$$

$$70 \times 6 = 420$$

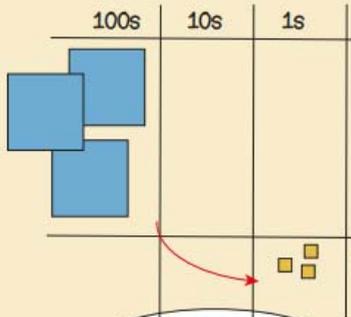
$$7 \times 60 = 420$$



multiplier
product
regroup



$$\begin{array}{r} 523 \\ \times 3 \\ \hline 1569 \end{array}$$



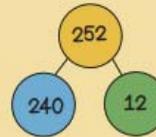
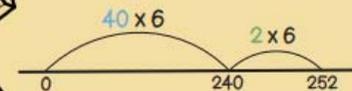
3 is one hundred times smaller than 300

dividend
divisor
exchange
remainder
quotient

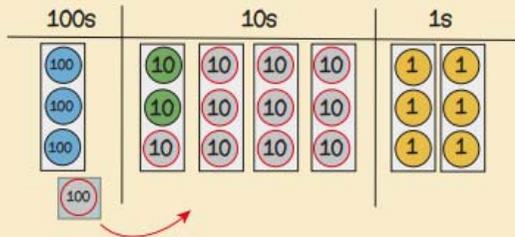
300
 $\div 3$
100

If I know 24 ÷ 6 = 4
then I also know 240 ÷ 6 = 40

$$252 \div 6 = 240 \div 6 + 12 \div 6 = 40 + 2 = 42$$



$$426 \div 3 = 142$$



Year 4 Term 4

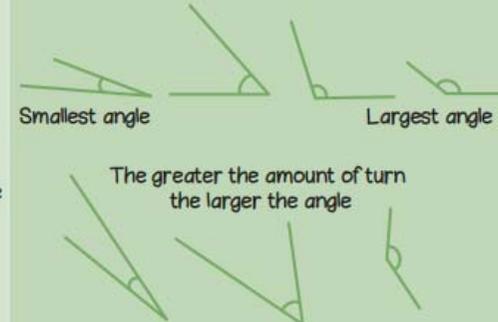
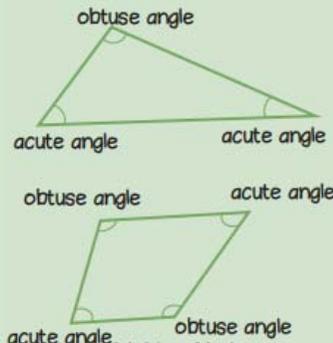


An acute angle is smaller than a right angle

An obtuse angle is greater than a right angle



angle
acute
obtuse
right angle





Qu'est-ce
que tu fais



Je joue au
tennis



Je joue au
basket.



manger



le jus
d'orange



le yaourt



Je joue au
cricket.



Je fais du
vélo.



Je fais du
skate.



le poisson



une pomme



les carottes



Je fais de la
danse



Je fais de la
natation



Je joue au
football



le chocolat



le coca



les pommes
frites



Je joue au
rugby

0
zéro



boire



les bonbons



Oui, c'est bon
pour la santé.

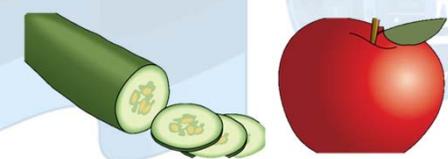


Non, c'est
mauvais pour
la santé

Which sports
do you enjoy?



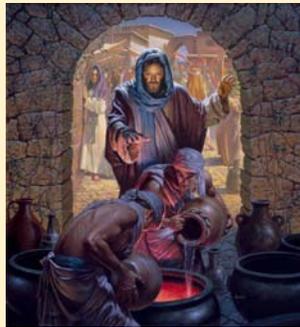
Which fruits
and vegetables
do you like?



Magic or a miracle?



Jesus turns
water into wine



Jesus heals
Jairus's
daughter



Jesus feeds the 5000

THE EIGHT BEATITUDES OF JESUS

"Blessed are the poor in spirit,
for theirs is the kingdom of heaven.

Blessed are they who mourn,
for they shall be comforted.

Blessed are the meek,
for they shall inherit the earth.

Blessed are they who hunger and thirst for
righteousness,
for they shall be satisfied.

Blessed are the merciful,
for they shall obtain mercy.

Blessed are the pure of heart,
for they shall see God.

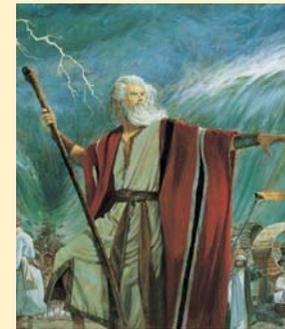
Blessed are the peacemakers,
for they shall be called children of God.

Blessed are they who are persecuted for the sake of
righteousness, for theirs is the kingdom of heaven."

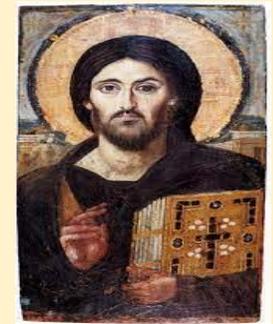
Matthew 5:3-10

Lord Jesus Saves

Moses



Jesus



How can you compare Jesus and
Moses?

How do they both inspire the people
who follow their faith?

Questions

What connections are there between Bible stories
and real life as a Christian?

How can you define how Christians feel about
Easter?

Why do Christians use bread to represent life?



How does this parable
of the two houses
teach Christians how
to live?

Are these inspiring
words from Jesus?

The one who hears God's word but does not do what it says is like a foolish builder who builds his house on sand. That house will be crushed in a storm. The one who hears the word of God and obeys it is like a wise man that builds his house on solid rock. That house will stand up to any storm.



PSHE Knowledge Organiser Year 4 Term 4: Healthy Me



The Park
Academies
Trust

Knowledge

I understand the facts about smoking and its effects on health, and also some of the reasons some people start to smoke

I understand the facts about alcohol and its effects on health, particularly the liver, and also some of the reasons some people drink alcohol

I can recognise when people are putting me under pressure

I know myself well enough to have a clear picture of what I believe is right and wrong

The Jigsaw! Charter

- We take turns to speak
- We use kind and positive words
- We listen to each other
- We have the right to pass
- We only use names when giving compliments or when being positive
- We respect each other's privacy (confidentiality)



Jigsaw

- 1 - Kind**
[action = make a heart shape with your hands]
- 2 - Friendly**
[action = shake hands with someone]
- 3 - Safe**
[action = make a cradle with your arms/hands like you're holding something precious]
- 4 - Positive**
[action = smile]
- 5 - Honest**
[action = put your hand on your heart]
- 6 - Respect**
[action = high five]
- 7 - Trust**
[action = hold out your hand like you are helping a friend climb a mountain]
- 8 - Team work**
[action = link arms around the class]
- 9 - Communication**
[action = make your hands move like mouths]

Key Vocabulary

assertiveness

pressure

alcohol

drugs