Autumn term- Year 5 Maths – Fractions A

Previously learned vocabulary						
Denominator (y2)						
non-unit fraction (y3)						
Equivalent (y2)						
Hundredths (y4)						
cabulary						
thousandths						
simplest form						

Adding and subtracting fractions

When the denominators are the same fractions (sometimes called <u>like fractions</u>) can be easily added or subtracted. The denominator stays the same and you just add or subtract the numerator

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

$$\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$$

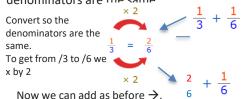
$$+ \frac{4}{8} + \frac{1}{8}$$

$$0 \frac{1}{8} \frac{2}{8} \frac{3}{8} \frac{4}{8} \frac{5}{8} \frac{6}{8} \frac{7}{8} \frac{7}{8} \frac{1}{4}$$

$$0 \frac{1}{4} \frac{2}{4} \frac{3}{4} \frac{1}{4} \frac{1}{4}$$

Adding and subtracting fractions (when denominators are related multiples)

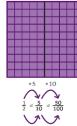
If the denominators are NOT the same (sometimes called <u>unlike fractions</u>) we first have to convert one or both so the denominators are the same



This also applies for subtracting fractions with different denominators

Equivalent Fractions

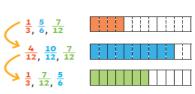
To find equivalent fractions, we multiply or divide the numerator and denominator by the same number



Order and compare fractions (when denominators are related multiples)

Similar to +/-

- 1. Make the denominators the same by converting
- 2. Compare or order the fractions
- 3. Write back as original fraction



Top Tips for Adding and subtracting fractions

- 1. Make the denominator the same (by converting). Do the same to the numerator & the denominator
- 2. Add or subtract the numerators
- 3. Simplify if needed

Mixed numbers and improper fractions

Mixed numbers – Contain a whole number and a fraction

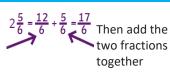
fraction

Improper fractions -Numerator is greater than the denominator

<u>5</u>

Convert mixed number to improper fraction

Multiply the whole part by the denominator to make an improper fraction



Convert improper fractions to mixed numbers

9 ÷ 4 = 2r1 $2\frac{1}{4}$ Divide the numerator by the denominator

This shows you the whole number and the fraction

Previously learned vocabulary Factor (y4) factor pairs (y4) Remainder (y4) Multiples (y3) commutative (y2) array New Vocabulary composite prime factor square(d) 2 cube(d) 3

Divide numbers up to 4 digits by a 1 digit number

		3	8
4	1	¹ 5	32

 $15 \div 4 = 3$ remainder 3 Remember to exchange any remainders and move them into the next column.

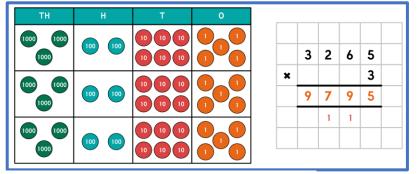
Divide with remainders

		4	5	5	ŗ	3
5	2	2	² 7	² 8		

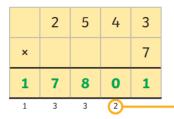
28 \div 5 = 5 remainder 3 If your calculation has a remainder, remember to record it in the answer using the letter r

Year 5 Maths - Multiplication & Division B

Multiply numbers up to 4 digits by a one-digit number.



$2543 \times 7 = 17801$



Remember to move any exchanged digits into the next column. After the next multiplication, add the exchanged number to the answer.

Multiply numbers up to 4 digits by a two-digit number.

			, , , , ,
1	3	2	
	1	5	4
×		2	6
	9	2	4
3	0	8	0
4	0	0	4
1	1		
		Contract Contract	

$2543 \times 67 = 170381$



Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

Efficient division

621 ÷ 3

408 ÷ 4

To divide by 4 we can halve and halve again.

$$408 \div 2 = 204$$

$$204 \div 2 = 102$$

so $408 \div 4 = 102$

768 ÷ 8

To divide by 8 we can halve and halve again. Then divide the answer by 2.

$$768 \div 2 = 384$$

$$384 \div 2 = 192$$

$$192 \div 2 = 96$$

so 768 ÷ 8 = 96

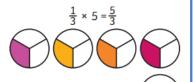
Year 5 Maths – Fractions B

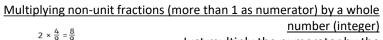
Previously learned vocabulary							
Numerator (y2)	Denominator (y2)						
unit fraction (y3)	non-unit fraction (y3)						
common denominator (y3)	Equivalent (y2)						
Tenths (y3)	Hundredths (y4)						
New vo	cabulary						
mixed number	thousandths						
improper fraction	simplest form						
Percent/ n	ercentage						

Multiplying fractions by integers

Multiplying unit fractions by an integer (whole number)

Just multiply the numerator by the whole number to get the answer. Keep the denominator the same





Just multiply the numerator by the whole number to get the answer and keep the denominator the same (similar to above)

Multiplying mixed numbers by a whole number (integer)

Convert to an improper fraction, then multiply the numerator by the

integer (as above)

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







Or use repeated addition

Use repeated addition.

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

Fractions of a quantity







2 3



$$\frac{1}{3}$$
 of 12 = 4 $\frac{1}{5}$ of 15 = 3

$$\frac{1}{5}$$
 of 15 = 3

$$\frac{2}{3}$$
 of 12 = 8

$$\frac{3}{5}$$
 of 15 =

Fractions of an amount

		40		
8	8	8	8	8

Find the whole



		45		
9	9	9	9	9
		5 lots of 9		

If we do not know the whole, using a bar model will help to visualise the problem.

$$\frac{1}{5}$$
 of ____ = 9

This means that 9 is $\frac{1}{5}$ of _____

9 is
$$\frac{1}{5}$$
 of 45

Dividing fractions by whole numbers

$$\frac{1}{6} \div 4 = \frac{1}{24}$$

Multiply the denominator by the whole number

Keep the numerator the same

Simplify if needed

The denominator tells us how many parts to split the whole into.





$$\frac{3}{5}$$
 of 40 = 24

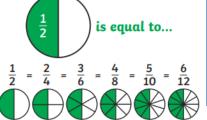
$$\frac{4}{5}$$
 of 40 = 32

Previously learned Y5 Maths – Decimals A & B vocabulary Decimal (y4) **Compare and order decimals** Use of place value Addition and subtraction Hundredth (y4) knowledge to with decimals Thousandth (y5) compare and order decimal numbers 187.65 + 25.3= Decimal places (y4) **New vocabulary** We set out the addition like this (learned in y6) Rounding decimals to the nearest whole number and one decimal place using place value knowledge to Mixed number 1.11 1.12 1.13 1.14 1.15 1.16 1.17 1.18 1.19 help. Make sure the decimal points are lined up! If the hundredths digit is 1, 2, 3 or 4, If the hundredths digit is 5, 6, 7, 8 or Multiplying and dividing we round down to the nearest tenth. 9, we round up to the nearest tenth. 7.6 5 Top Tip! Add in decimals by integers place holders to 1.2 1.4 1.7 1.8 1.3 1.6 empty spaces 3 4 5 If the tenths digit is 5, 6, 7, 8 or 9, we If the tenths digit is 1, 2, 3 or 4, we round down to the nearest whole number. round up to the nearest whole number. 3 Multiplying and dividing decimals by 10, 100 and 1000 .12 ÷ 4 3 5 0 Thousands Hundreds hundredths **Jundredths** Tenths Ones ens 2 0 8 2 0 Continues to the left 2 0 as we have previously New section on our learnt Thousands Hundreds hundredths place value grid 3 5 This number has... Ones Tenths Hundredths Thousandths $2.3 \times 100 = 230$ To multiply a number by 10, 100 or 2.3 1,000, move the digits 1, 2 or 3 places to 23.0 (one place to the left) 100 the left. Use placeholders (0) to fill empty 2 3 0 . 0 (two places to the left) columns. Tip: the decimal point must not move. $14 \div 1.000 = 0.014$ 2 ones hundredths To divide a number by 10, 100 or 1,000, 1 tenth 14.0 (write the whole number with a decimal point and placeholder) thousandths move the digits 1, 2 or 3 places to the 1.4 (one place to the right) right. Use placeholders (0) to fill empty 0.14 (two places to the right) We read it at 2.123 0.014 (three places to the right) columns. Two point one, two, three Tip: the decimal point must not move.

Autumn Term – Y6 Maths – Fractions A

Previously Learned Vocabulary Mixed number (y5) Thousandths (y5) Improper fraction Simplify (y5) (y5) Decimal equivalents (y4)

Equivalent fractions



You can find equivalent fractions by multiplying or dividing the numerator and denominator by the same number

Adding and subtracting fractions

- Make the denominator the same 1.
- 2. Add or subtract the numerators
- 3. Simplify if needed

Same Denominators



$$\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$$



$$\frac{8}{11} - \frac{3}{11} = \frac{5}{11}$$

Different Denominators

Multiples of 7: 7, 14, 21, 28, 35 Multiples of 10: 10, 20

25, 30, **35**

$$\frac{2}{7} = \frac{10}{35}, \frac{3}{5} = \frac{21}{35}$$

Multiples of 5: 5, 10, 15, 20, Multiples of 4: 4, 8, 12, 16, 20

$$\frac{9}{10} = \frac{18}{20} \, , \, \, \frac{1}{4} = \frac{5}{20}$$

$$\frac{18}{20} - \frac{5}{20} = \frac{13}{20}$$

Multiples of 3:

3, 6, 9, 12, 15

Multiples of 10:

10, 20

 $\frac{10}{13} = \frac{10}{13}$

$$\frac{9}{15} < \frac{10}{15}$$
 $\frac{2}{3} = \frac{10}{15}$

Order and compare fractions

 $\frac{10}{16} < \frac{10}{13}$

A fraction is a part of a whole. numerator = number of parts referred to fractions bar = divided by / out of denominator = number of parts in whole

Proper fractions

Fractions are divisions yet to be done...

$$\frac{1}{8} = 1 \div 8 = 0.125$$

Improper fractions and mixed numbers

Improper fractions and mixed numbers show fractions more than a whole.

$$\frac{11}{7} = \boxed{\frac{4}{7}} = \boxed{\frac{4}{7}} = \boxed{\frac{1}{11}}$$

Use the Common Denominator

Use the Common Numerator

Multiples of 5:

5, 10, 15

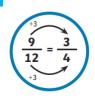
Multiples of 5:

5, **10**, 15



Simplify fractions

Factors of 9: 1, 3, 9 Factors of 12: 1, 2, 3, 4, 6, 12



Add or subtract the whole numbers and fractions separately.

$$\frac{2}{5} + 1 \frac{3}{10}$$

$$\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$$

$$3 + \frac{7}{10} = 3\frac{7}{10}$$

$$2\frac{1}{2} - 1\frac{1}{4}$$

$$2 - 1 = 1$$

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

$$1 + \frac{1}{4} = 1\frac{1}{4}$$

Convert the mixed numbers to improper fractions.

$$2\frac{2}{5}+1\frac{3}{10}$$

$$2\frac{1}{2}-1\frac{1}{4}$$

$$2\frac{2}{5} = \frac{12}{5}$$

$$2\frac{2}{5} = \frac{12}{5}$$
 $1\frac{3}{10} = \frac{13}{10}$ $2\frac{1}{2} = \frac{5}{2}$

$$\frac{12}{5} + \frac{13}{10} = \frac{24}{10} + \frac{13}{10} = \frac{37}{10}$$

$$\frac{5}{2} - \frac{5}{4} = \frac{10}{4} - \frac{5}{4} = \frac{5}{4}$$

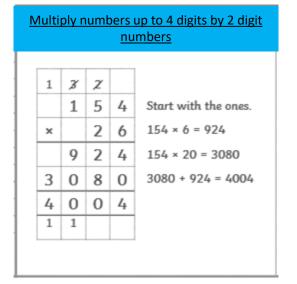
$$\frac{37}{10} = 3\frac{7}{10}$$

$$\frac{5}{2} - \frac{5}{4} = \frac{10}{4} - \frac{5}{4} = \frac{5}{4}$$

$$\frac{5}{4} = 1 \frac{1}{4}$$

Autumn Term – Y6 Maths – Multiplication and Division B

Previously Learned Vocabulary						
Product (y3)	Factor (y4)					
Multiple (y3)	Prime (y5)					
Remainder (y4)	Short division (y3)					
Millions (y5)	Round/ rounding (y4)					
Equivalence (y5)	Integers (y3)					
New V	New Vocabulary					
Long division						
Common factors	Common multiples					



Order of Operations В **Brackets** $10 \times (4 + 2) = 10 \times 6 = 60$ Order $5 + 2^2 = 5 + 4 = 9$ D Division $10 + 6 \div 2 = 10 + 3 = 13$ M Multiplication $10 - 4 \times 2 = 10 - 8 = 2$ Addition $10 \times 4 + 7 = 40 + 7 = 47$ S Subtraction $10 \div 2 - 3 = 5 - 3 = 2$

Long division

Long division is useful if you need to divide by a 2-digit number. It is set out similar to short division.

8670 ÷ 15.
8 ÷ 15 does not
give a whole
number answer so
we look at the next
digit.

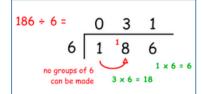
ot				5			
	1	5	8	6	7	0	
er so		-	7	5			
e next			1	1			

 $86 \div 15 = 5$ with 11

left over. Put a 5 above the 6 on the line.

 $15 \times 5 = 75$. Take that 75 away from the 86 to get your remainder of 11.

Bus stop method for short division



Next, carry the 7 down to make 117.

 $117 \div 15 = 7$ with 12 left over. Put a 7 above the 7 on the line. $15 \times 7 = 105$. Take that away from 117 to get your remainder of 12.

			5	7		
1	5	8	6	7	0	
	-	7	5	ţ		
		1	1	7		
	-	1	0	5		
			1	2		

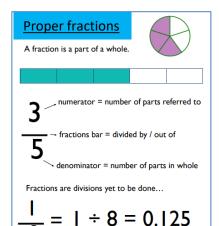
Finally, carry the 0 down to make 120.

 $120 \div 15 = 8$. Put an 8 above the 0 on the line.

Now you have your final answer:

8670 ÷ 15 = 578

			5	7	8	
1	5	8	6	7	0	
	-	7	5	ţ		
		1	1	7		
	-	1	0	5	ļ	
			1	2	0	



Improper fractions and mixed numbers

Improper fractions and mixed numbers show fractions more than a whole.

$$\frac{11}{7} = \boxed{\frac{4}{7}} = \boxed{\frac{1}{7}}$$

Year 6 Maths – Fractions B

Multiplying Fractions by Fractions

1 X 2 Multiply numerator by numerator

Multiply denominator by denominator

The answer here would be $\frac{2}{10}$

Multiplying Fractions by Fractions

$$\frac{1}{2} \times \frac{1}{3} = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

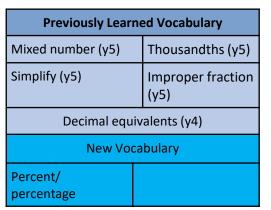
Multiplying Fractions by Whole Numbers



$$\frac{2}{5} \times \frac{3}{1} = \frac{6}{5} = 1\frac{1}{5}$$

Another method for multiplying fractions by whole numbers
Multiply the numerator by the whole number
Keep the denominator the same

Simplify if needed 3



Did you know?

X and of are
interchangeable?

The answer here would be $\frac{9}{5}$ or $1\frac{4}{5}$

Dividing fractions by whole numbers

$$\frac{1}{6} \div 4 = \frac{1}{24}$$
Multiply the denominator by the whole number
Keep the numerator the same
Simplify if needed

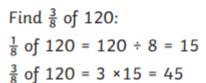
Find the whole

Find the whole:
4/9 of the whole = 24
1/9 of the whole = 24 ÷ 4 = 6
The whole is 9 × 6 = 54

Fractions of amounts

Divide the whole number by the denominator.
Multiply by the numerator.





Previously learned vocabulary

Decimal (y4)

Hundredth (v4)

Thousandth (v5)

Decimal places (y4)

New vocabulary (learned in v6)

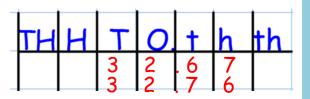
Multi-step

Long division

Interval

Y6 Maths - Decimals A & B

Compare and order decimals



Use of place value knowledge to compare and order decimal numbers

Round any number to a required degree of accuracy

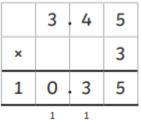
Round 432.674 to 2 dp

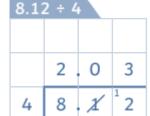
It is less than 5 so 7 stays as it is and we eliminate the 4!

7 is the place, next door is 4

The answer would be 432.67

Multiplying and dividing decimals by integers





Multiplying and dividing decimals by 10, 100 and 1000

Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
		x	2	0	8	
		2	0	8	10	
			2	0	8	
Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths
	× 100	4	3	5		
4	3	5	0	÷ 100		
		4	3	5		

To multiply a number by 10, 100 or 1,000, move the digits 1, 2 or 3 places to the left. Use placeholders (0) to fill empty columns.

To divide a number by 10, 100 or 1,000, move the digits 1, 2 or 3 places to the right. Use placeholders (0) to fill empty columns.

Addition and subtraction with decimals

187.65 + 25.3=

We set out the addition like this using place value knowledge to help. Make sure the decimal points are lined up!



Find the place Look next door 5 or more raise the score 4 or less, let it rest

Look to the right...

Eliminate the digita!

2.3

2 3 . 0 (one place to the left)

2 3 0 . 0 (two places to the left)

Tip: the decimal point must not move.

 $14 \div 1.000 = 0.014$

14.0 (write the whole number with a decimal point and placeholder)

1.4 (one place to the right)

0.14 (two places to the right)

0.014 (three places to the right)

Tip: the decimal point must not move.

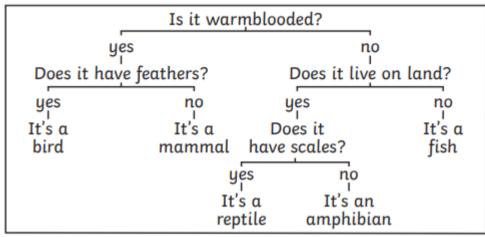
Science Unit – Living things and their habitats; Classification and Micro organisms Oak Class – Heptonstall School



Key Vocabulary				
Microorganism	a <u>microscopic</u> organism, especially a <u>bacterium</u> , virus, or <u>fungus</u> .			
Conifero 🍂	conifers are a group of cone-bearing seed plants			
Domain	the largest of all groups in the classification of life.			
Species	a group of organisms that can reproduce with one another in nature and produce fertile offspring			
Characteristics	a distinguishing quality, trait, or feature			
kingdom	the second highest taxonomic rank			
Organism	A living thing, such as an animal, a plant, a bacterium, or a fungus.			
Classification	the arrangement of animals and plants in groups according to their observed similarities			

Key Information I will learn...

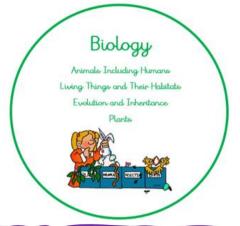
Classification tree





This is a <u>biology</u> unit of Science.

This is because it is a study of living things.

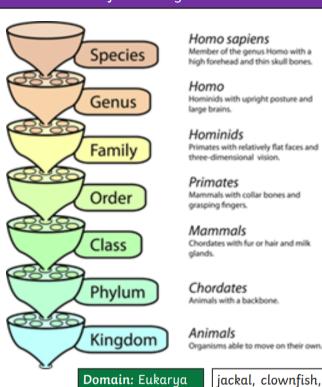


Classification

Carl Linnaeus (23rd May 1707 – 10th January 1778) was a Swedish botanist, zoologist, taxonomist, and physician. In 1735, he first published a system for classifying all living things.

An adapted version of this system is still used today: The Linnaeus System

Linnaeus classification sustem



Helpful Microbes	Harmful Microbes	
Bacteria – cheese	Bacteria – salmonella is a bacterium that can lead to food poisoning	
Yeast – wine	Virus – chicken pox and flu are examples of viral diseases	
Bacteria – yoghurt	Fungi – athlete's foot	
Yeast – bread dough	Bacteria — plaque	
Penicillium fungi - antibiotics	Fungi - mould	

Three domains

Microorganisms are viruses, bacteria, moulds and yeast. Some animals (dust mites) and plants (phytoplankton) are also microorganisms.

Microorganisms are veru tiny living things that can only be seen using a microscope. They can be found in and on our bodies, in the air, in water and on objects around us.



Key Questions

How can we group organisms? How can we group plants? What are characteristics? What is the difference between flowering and non-flowering plants?

Who was Carl Linnaeus? What is a micro-organism?

How can micro-organisms be harmful and helpful?

Keu facts

- Microorganisms are very tiny living things that can only be seen using a microscope. They can be found in and on our bodies, in the air, in water and on objects around us. Viruses, bacteria, moulds, yeast, some animals (dust mites) and plants (phytoplankton) are also microorganisms
- Some microorganisms can be harmful to the body such as the virus COVID 19 and bacteria salmonella. Some microorganisms can be helpful such as bacteria present in yogurt and cheese

Fnd Goals

- Can give examples in the five vertebrate groups and some in the invertebrate group.
- Can give key characteristics of these groups.
- Can give examples of flowering and nonflowering plants.
- Can identify unknown plants using ID and classification charts.
- Can explain why animals belong to groups.
- Know that Carl Linnaeus classify plants and animals.
- Can use ID guides to identify plants.
- Can classify plants in different ways using observable characteristics/ similarities and differences.
- Give reasons for classifying plants based on characteristics

Must Knows

<u>Living things and their habitats - Classification & Micro organisms</u>



Key Facts:

- A living organism moves, reproduces, grows and excretes.
- The stem of a plant moves towards the strongest light source and the roots move away from light.
- Plants can reproduce sexually and asexually.
- Vertebrates can be put into groups of mammals, birds, fish, amphibians and reptiles.
- Plants can be put into groups of flowering and non-flowering.
- Scientists group organisms based on their features. Grouping organisms can help scientists to understand how organisms are related to each other.
- Classification keys are used to classify animals. Classification keys are used to identify different animals based on their features. Classification keys are made up of several questions with "yes" or "no" answers.
- Carl Linnaeus was a Swedish botanist who wrote a book called Systema Naturae or System of Nature. Linnaeus was famous for developing the first system to classify animals and plants.
- The classification was based on a hierarchical system. Linnaeus initially divided the Kingdom Animalia into six classes. These were mammals, birds, amphibians, fish, insects and worms.
- Classification keys are used to classify plants. Classification keys are used to identify different plants based on their features. Trees can be classified as deciduous, evergreen and coniferous.
- Bacteria are simple organisms invisible to the naked eye Some bacteria can cause diseases and infections. Humans have good bacteria in their bodies that help to digest food.
- Viruses are microorganisms that need a host, and are invisible to the naked eye. They can cause diseases such as flu or a common cold. Fungi are microorganisms. Some can cause infections. Some can be used in bread making.
- Microorganisms, such as bacteria, viruses and fungi, can be classified.
- The classification of microorganisms is based on their features, such as shape. Bacteria, viruses and fungi have different shapes

History Unit - Crime and Punishment

Oak Class - Heptonstall School

	COMPTAIL JE /SCHOOL
The Family of Learning Tru.	A FOR THE PURIL

Capital The legally authorised killing of someone as punishment for a crime. This was abolished in punishment the UK in 1965 The system of rules which a particular country I aw or community recognizes as regulating the actions of its members and which it may enforce by issuing penalties. Something, tupically money, awarded to Compensation someone in recognition of loss, suffering, or injury Wergild Anglo-Saxon compensation. Crucifixion An ancient form of execution in which a person was nailed or bound to a cross Judge A person who is in charge of a trial in a court

Key Information I will learn...

The Halifax Gibbet was an early quillotine used to decapitate those who had committed certain crimes.



bar).



The police force was first introduced in London in 1829 Sir Robert Peel introduced them as part of a campaign to improve public law. These policemen wer called 'Bobbies' or 'Peelers' Theu wore long blue coats and tall hats and their only weapon was a truncheon

Police Force

Roman laws, written around 450 BC, were called the 'Twelve Tables'. Not following these rules was a crime. Punishments

were severe to deter

people from not following

them. People could pay to

have their punishment

Durina Analo-Saxon times, trials bu ordeal were used to see if people were innocent or quilty (hot water, cold water and iron

To deter people from committing crimes, the Tudors came up with even more terrifuing punishments, including public executions.. The scold's bridle was worn for gossiping and the dunking stool to find out if someone was a witch.

This is a history topic. We will be working as historians

Key Questions

lessened.

What was the Halifax aibbet? how do we currently prevent crime, how do we deter time and how we respond to crime? Which crimes were the most common?

End Goals

Magistrate

Assess the need for punishment in Britain to change over time and whether previous sanctions were appropriate, fair and logical.

Explore reasons why changes may have occurred, backed up by evidence or provide evidence that refutes some historical theories. Construct informed and structured responses to historical questions and hypotheses that involve thoughtful selection and organisation of relevant historical information

Independently investigate own lines of enquiry by posing questions to answer

and decides how a person who is guilty of a

An official who acts as a judge in law courts

which deal with minor crimes or disputes.

crime should be punished, or who makes

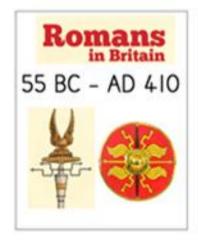
decisions on legal matters

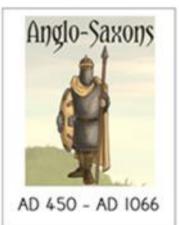
Use documents, printed sources the internet, pictures, photographs, music, artefacts, historic buildings, visits to museums and galleries and visits to sites to collect evidence about the past to build conclusions.

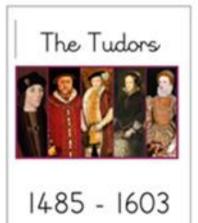
Investigate and interpret historical events using a range of sources discussing how and why things happened and how this may differ in a modern-day context.

Oak Class – Heptonstall School











Substantive cond	tantive concepts						
concept	Linked vocabulary						
Parliament	Parliament is the legislature, or lawmaking group that oversees the government. In Great Britain, the government leader, called the prime minister, is always a member of Parliament. Parliament in Great Britain consists of the sovereign (King-in-Parliament), the House of Lords, and the House of	Government Monarch Prime minister House of Lords House of Commons					
Religion	Commons. Religion is a fundamental set of beliefs and practices	Faith					
J	that are followed by a large number of people.	Beliefs Worship					



Crime and Punishment

How has crime and punishment in Great Britain changed through the ages Must know facts

Key Facts:



- Capital punishment was abolished in the UK in 1965.
- A jury of 12 people decides whether someone is guilty or innocent.
- A judge or magistrate decides on the punishment for the crime committed.
- Roman punishments were very severe to deter people from committing crimes.
- Punishments from the Roman times included crucifixion, becoming a gladiator and whipping.
- The Tudors came up with punishments that would humiliate people such as public executions.
- During Anglo-Saxon times, trials by ordeal were used to see if people were innocent or guilty (hot water, cold water and iron bar).
- The Halifax Gibbet was an early guillotine used to decapitate those who had committed certain crimes.
- Sir Robert Peel establish the Metropolitan Police.
- Theft has always been the most common crime.

Must Knows quiz score.....

Art - Activism

Oak Class – Heptonstall School



Key Vocabulary

	Rey Vocubu	Rey Vocabalary			
	Activism	The policy or action of			
		using vigorous campaigning to			
		bring about political or social			
١		change.			
	Screen	A technique for transferring ink			
	printing	onto a surface by pushing it			
	printing	through a mesh screen with a			
		stencil on it			

Shepard Fairey

- Shepard Fairey is a contemporary street artist and activist.
- In his work he tackles topics such as political power and propaganda.
- Fairey uses stencils and screen print to make his work.



Key questions

In what ways can artists express their ideas and opinions?

What do you care about and how best can you communicate this visually?

What is screen printing?

Key Information I will learn...

Arist Activist

Luba Lukova



Faith Ringgold



Kate DeCiccio



End points

Practise seeing negative and positive shapes.

Explore what your passions, hopes and fears might be. What makes you you? How can you find visual equivalents for the words in your head?

Explore colour: make colours, collect colours, experiment with how colours work together.

Explore combinations and layering of media.

can be specific to the intention of the artist.

Develop Mark Making

Make visual notes to capture, consolidate and reflect upon the artists studied Understand that artists sometimes use their skills, vision and creativity to speak on behalf of communities they represent, to try to change the world for the better. Understand that the nature of the object (artwork in gallery, graffiti on wall, zine)

Explore what kinds of topics or themes YOU care about. Articulate your fears, hopes, dreams. Think about what you could create (possibly working collaboratively) to share your voice and passion with the world.

Use screen-printing and/or monoprinting over collaged and painted sheets to create your piece of activist art.

Or create a zine using similar methods.

DT Unit - Playgrounds

Oak Class – Heptonstall School

Structure - Playgrounds

Apparatus	Equipment designed for recreation and play, such as seesaws and swings.
Bench hook	A tool which hooks onto the edge of the workbench. It's used to hold woodwork still when sawing.
Coping saw	A saw with a narrow D-shaped metal blade, used for cutting curves in woods.
Dowel	Wood in the shape of a cylinder. Dowels come in all different sizes and thicknesses.
Jelutong	A type of softwood, it is lightweight, easy to cut and shape.
Mark out	To measure and mark where a piece of material needs to be cut or shaped.
Modify	To change something to improve or fix it.
Natural materials	Materials which come from nature. (e.g. wood comes from trees)
Plan view	A two-dimensional diagram used to describe a place or object from above with annotations and other details such as measurements.
Playground	An outdoor area for children to play in. They usually have different apparatus to play on such as climbing frames and slides.
Prototype	A simple model that lets you test out your idea and how it will look and work.
Reinforce	To make a structure or material stronger, especially by adding another material or element to it.
Structure	Something which stands, usually on its own.
Tenon saw	A saw with a flat blade, used for cutting wood in straight lines or angles.
User	A person that uses something.
Vice	A piece of equipment used to hold an object still while you work on it.

Did you know?

The first children's playground was built in 1859 in a park in Manchester, Great Britain.



Key facts







Designing a playground featuring a variety of different structures, aivina careful consideration to how the structures will be used, considering effective and ineffective designs. Building a range of play apparatus structures drawing upon new and prior knowledge of structures. Measuring, marking and cutting wood to create a range of structures. Using a range of materials to reinforce and add decoration

and add decoration to structures. Improving a design plan based on peer evaluation.

Testing and adapting a design to improve it as it is developed. Identifying what makes a successful structure.





cinq euros dix euros vingt euros cinquante euros un euro deux euros cinquante centimes vingt centimes dix centimes cinq centimes deux centimes un centime

Key Vocabulary – Shopping Conversations					
Bonjour, Madame/Mademoiselle/Monsieur					
Hello, madam/miss/sir					
		le/la/les un/une (m/f/plural) a/an (m/f		du/de la/de l'/des some (m/f/plural)	
		est euros. t's euros.	Voici Here is	Voici votre monnaie. Here is your change.	
s'il vous plaît please		Merci (beaucoup). Thank you (very much).		Au revoir ! Goodbye!	



Key Knowledge and Grammar

Money

- In English, the pound sign comes before the money amount. In French, the euro sign comes **after** the amount. Euros and cents are separated by a comma as opposed to a full stop.
- It's more common to say C'est deux euros quarante (It's 2,40€), although it is also acceptable to say C'est deux euros quarante centimes.

Numbers

- When the number is a multiple of 100, there is an s on cents, e.g. quatre-cents (400). However, if there are other numbers after the hundred, then there is no s on the end of cent, e.g. quatre-cent-cinquante (450).
- There is an **s** on **vingts** in **quatre-vingts** (80) but if there are other numbers after **vingt**, then there is no **s** at the end, e.g. **quatre-vingt-dix** (90).



Let's Go Shopping

Key Vocabulary - At the Shops Où est...? Where is...? le magasin de la boucherie (f) la fromagerie (f) chaussures (m) + - - - - + la pâtisserie (f) la bijouterie (f) la boulangerie (f) TOY SHOP le magasin de le magasin de la confiserie (f) jouets (m) vêtements (m) à côté de next to Remember that if a noun is feminine, use entre between de la. If the noun is masculine, use du.



Key Vocabulary - All About Clothes un manteau (m) une jupe (f) une chemise (f) un pull (m) bleu/bleue blanc/blanche iaune noir/noire vert/verte gris/grise violet/violette rouge foncé – dark clair - light orange marron rose

Key Knowledge and Grammar

Adjectives

- In French, almost all adjectives go after the noun, e.g. **un pull bleu** (a blue jumper).
- Some colours have a feminine form when describing a feminine noun e.g. **une jupe bleue** (a blue skirt).
- If you add 'dark' or 'light' to the colour, it does not need to change to agree in gender or number, e.g. **une jupe vert foncé** (a dark green skirt), **une chemise rose clair** (a light pink skirt).





Year 5 Databases

Key Learning

- To understand what a database is.
- To design and create a database.
- To build queries to find information.
- To solve problems using a database.

Key Resources



2Investigate

Key Vocabulary

Condition

A condition is a rule you give to a database to help it find the right information.

Data

A set of facts or information that help us learn something or make decisions.

Database

A set of data that can be held in a computer in a format that can be searched and sorted for information.

Edit

To change, add or remove data from a record.

Field

A heading in a database record against which data is entered.

Filter

Filtering what information is shown according to any filter rules applied.

Group

Putting similar pieces of information together in a database so it is easy to read and understand.

Linked Tables

A database can contain more than one table which can be linked together so a query can include information from the linked tables.

Operator

An operator tells a database what to do with data when someone is making a query. Such as: Find everyone whose score 'is equal to' 10.

Query

A user will run a query to find specific information in a database.

Record

A collection of related data or information that is stored together as a single unit.

Sort

Organising data by a rule such as alphabetical or numerical.

Validation

A field can have specific data types such as numbers, letters, dates and times which helps minimise input errors.





Year 5 Databases

Key Images



Add record







Create query





Key Questions

What do databases help us do?

Databases help organise data into one place. Data can be added, stored and retrieved by more than one person. When data is retrieved it can be combined to form information that someone might wish to find out. It is much quicker, more convenient and can be used by many people.

What is a query?

A query is the word used instead of question when using databases. Someone will create a query to find the answer to something they want to know.

What does a record contain?

A record contains fields of data that form information about something or someone. A database will contain lots of records. For example, a database record could be a record on one child at a school that has fields: name, age and class.

What does the AND operator help someone do?

The AND operator joins rules (conditions) together. Using AND means all the conditions have to be met. AND helps someone find specific information (records).

How can errors be kept to a minimum when entering data into a database?

Fields can have the data types entered into them set. Additionally, constraints such as always required or has options can be used.

Why might a database need more than one table?

It can get very messy and confusing for users of a database if all data is kept in one table. For example, a vet surgery might need a table on the pets and a separate table on the customers.





Year 6 Blogging

Key Learning

- To understand blogs and their features.
- To plan the theme, content and structure for a blog post.
- To write and style a blog post.
- To review and comment on blog posts with an understanding of online safety.

Key Resources







Key Vocabulary

Approval

The act of acknowledging something is appropriate.

Blog

A regularly updated website or web page, typically one run by an individual or small group, that is written in an informal or conversational style.

Blog Post

A piece of writing or other item of content published on a blog.

Commenting

To express an opinion or reaction in speech or writing.

Draft

The first version of something you write.

Edit

To carefully check a created piece of writing for smaller errors.

Hyperlink

A word, phrase, image, or icon in a digital document that, when clicked or tapped, takes you to another part of the same document or to a completely different resource, such as a webpage, image, video, or file, on the internet or a local network.

Moderation

The process of reviewing, managing, and acting on user-generated content to ensure it sticks to the website's community guidelines and legal requirements.

Netiquette

Short for "network etiquette" or "internet etiquette," this refers to the set of social conventions and informal rules that guide online communication and interaction.

Plan

To think ahead and decide what you are going to do before you start doing it.

Publish

To make your written work available for other people to read.

Revise

To look at your written work again and make significant changes to improve it.

Vlog

A personal website or social media account where a person regularly posts short videos.



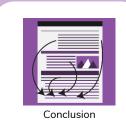


Year 6 Blogging

Key Images











Key Questions

What is a blog?

A blog is a website or webpage that is regularly updated by the author. A blog also allows the reader to post comments or opinion based on what is written.

How are the readers involved in a blog?

A key feature of blogs is that the readers can leave a comment or opinion about what they have read on the blog. The interesting discussions and comments on blogs are often why blogs become successful.

What can a blog be about?

A blog can be written about any subject that others might find interesting to read about and comment upon.

What role does the blog moderator play?

The primary goals of moderation on blogs include protecting the organisation's reputation, supporting good discussions, improving the user experience and creating a positive and trustworthy space for readers to interact.





Dance involves movements of the body with rhythm, usually to music. Instead of using words, we can use dance as a way of expressing ourselves and our feelings. Dance also improves our fitness, gives us better coordination, and helps us to connect with other people.



Diversity

Members: 20

Nationality: British

Age range: 18 - 29

Fact: Diversity won Britain's

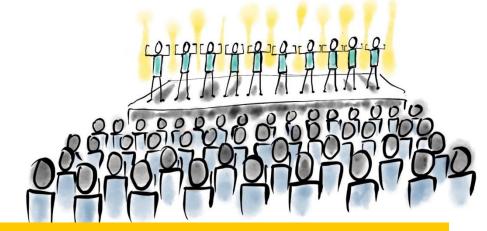
Got Talent in 2009



routine movement fluency music unison choreography

beat of 8





STEPS TO SUCCESS

These are the skills I need to achieve success in UKS2 Dance:

To be inspired by music and different stimuli.

To show ideas through dance.

To create sections of dance on your own, and in a group.

To apply the principles of dance to a routine.

To combine movements – keeping to the beat.

To perform to an audience.



Volleyball is a fast-paced sport played on a court with 2 teams separated by a net. The 6 players in a team must pass the ball and hit it into their opponent's side. Points are scored when the opponents cannot return the ball over the net without it touching the floor. There is also a version of volleyball that is played on sand.



Regla Torres

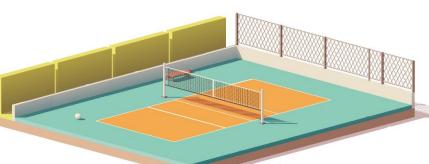
Club: Ciudad Habana

National Team: Cuba

Position: Middle blocker

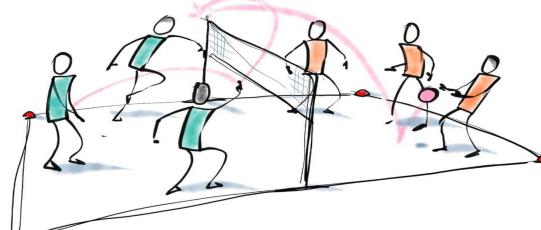
Fact: Torres has won 3 Olympic

gold medals.



control ready successful direction speed

accuracy space ball flight











These are the skills I need to achieve success in UKS2 Volleyball:

To react quickly to a travelling ball.

To move feet quickly to get into good positions.

To be confident to play different shots.

To play shots appropriate to the situation.

To play shots accurately.

To compete against others knowing when to attack and when to defend.



RE Unit 6.1 How do Sikhs show commitment? Oak Class – Heptonstall School





Keu Vocabularu

Guru Gobind Singh - is the last of the ten Gurus. He is the one who transformed the Sikh faith.

Guru Granth Sahib - is the name of the Sikh holy book.

Khalsa - the Khalsa is the collective body of all initiated Sikhs.

Amrit – is the ceremony where a Sikh person becomes a part of the Khalsa

Sewa – means 'selfless service'. It involves acting selflessly and helping others in a variety of ways, without any reward or personal gain.

Langar - is a community kitchen and, as part of it, free vegetarian food is served in the kitchens of a Gurdwara (a Sikh temple) every day.

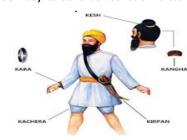
The 5Ks

		1110 3113		
Kesh – uncut hair	-	Kara - wristband	Kachera – short trousers	Kirpan -sword

Khandra symbol - is the symbol of the Sikh faith

Key Information I will learn...

The Five K's are the markers of Sikh identity, and they consist of: uncut hair, a short sword or knife, a steel wristband, a wooden comb. and shorts worn as



Amrit is the ceremony where a Sikh person becomes a part of the Khalsa.

The Khalsa wear the 5ks as a sign of commitment.

Initiated Sikhs carry a kirpan and it symbolises how they should be willing to die for their faith

Sikhism teaches about Sewa. It means 'selfless service' and involves helping others without any reward or personal gain.

Key questions

How do Sikhs show commitment to their faith through religious practice?

What symbols are important to Sikhs?

How do Sikhs show commitment to their faith through rites of passage?

How do Sikhs show commitment by putting faith into action?

What can we learn from Sikh beliefs and ways of life?

Values are things that we believe are important and show this by the way we act.

Sikhs demonstrate commitment through daily religious observance.



End Goals

Children will

- Discuss and compare a range of important values
- Summarise and give reasons for Sikh daily practice
- Reflect on personal values and make links with Sikh beliefs
- Identify and explain Sikh symbols, including the 5Ks
- Summarise and explain how Sikh teachings and stories influence Sikh practice.
- Weigh up different points of view about the Kirpan
- Identify and explain the main features of the Amrit ceremony
- Compare and contrast Sikh practices with other forms of commitment
- Identify and explain Sewa and make connections with other forms of service.
- Suggest reasons why the langar is an important part of the Gurdwara.
- Identify and explain key features of Sikh practice.
- Consider and discuss the impact of being a Sikh on daily life.
- Make links and applications to their own experiences and ideas