

Year 5
Learning
Guide

Maths

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction		Statistics		Number: Multiplication and Division			Measurement: Perimeter and Area	
Spring	Number: Multiplication and Division			Number: Fractions						Number: Decimals and Percentages		Consolidation
Summer	Consolidation	Number: Decimals			Geometry: Properties of Shape			Geometry: Position and Direction		Measurement: Converting Units		Measurement: Volume

Maths

By the end of the year.....

Mental calculation:

Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
 Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
 Add and subtract numbers mentally with increasingly large numbers (example, $12462 - 2300 = 10\ 162$)
 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000

Number and Place Value

Recognise the place value of each digit in a six and seven digit number.
 Read Roman numerals to 1000 (M) and recognise years in Roman numerals
 Write decimal numbers as fractions.
 Read, write, order and compare numbers with up to three decimal places.
 Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
 Round decimals with two decimal places to the nearest whole number and to one decimal place.

Solve number problems and practical problems that involve year 5 place value knowledge.

Addition and Subtraction, Multiplication and Division

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
 Add and subtract whole numbers with more than 4 digits (column method)
 Establish whether a number up to 100 is prime and recall prime numbers up to 19.
 Know and use the vocabulary of: prime numbers, prime factors and composite (non-prime) numbers & common factors.
 Recognise and use square numbers & cube numbers, and the notation for both.
 Multiply numbers up to 4 digits by a one-digit number using a formal written method (short x)
 Solve problems involving multiplication and division including: factors and multiples, squares and cubes, scaling by simple fractions and problems involving simple rates.
 Solve complex problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.

Fractions, ratio and proportion

Add and subtract fractions with the same denominator and multiples of the same number.
 Recognise the per cent symbol (%) relates to "number of parts per hundred", and write percentages as a fraction and as a decimal fraction.
 Compare and order fractions whose denominators are all multiples of the same number.
 Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
 Read and write decimal numbers as fractions
 Read, write, order and compare numbers with up to three decimal places.
 Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number
 Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
 Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those with a denominator of a multiple of 10 or 25

Measurement

Convert between different units of metric measure.
 Solve problems involving converting between units of time.
 Understand and use equivalences between metric units and common imperial units such as inches, pounds and pints
 Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
 Calculate and compare the area of squares and rectangles using standard units, and estimate the area of irregular shapes
 Estimate volume and capacity*
 Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.

Geometry: Shapes, Position and Direction

Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
 Identify 3-D shapes from 2-D representations
 Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
 Draw given angles, and measure them in degrees o
 identify: angles at a point and one whole turn, angles at a point on a straight line and $\frac{1}{2}$ a turn, other multiples of 90o
 Use the properties of rectangles to deduce related facts and find missing lengths and angles.
 Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

Statistics and Algebra

Solve comparison, sum and difference problems using data in a line graph.
 Compare, read and interpret information in two way tables, including timetables

Statistics

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts & line graphs.
 Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Additional challenge for the end of the year.....

Mental calculation:

Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one place, extend to two places).
Add and subtract numbers mentally combinations of two, three and four digits.
Use partitioning to double or halve larger numbers, including decimals to two decimal places
Round numbers to a million

Number and Place Value

Recognise negative numbers and can position them on a number line.
Read and write numbers to 10,000
Partition numbers in different ways $145 = 100 + 40 + 5$ and $130 + 15$
Find the effect of multiplying or \div a one or two digit number by 10 or 100
Round numbers to 10 000 to the nearest 10 or 100.
Show very good understanding of place value and is able to apply this to working with larger numbers/decimals and in solving problems.

Addition and Subtraction, Multiplication and Division

Solve complex addition and subtraction problems involving missing numbers.
Add and subtract decimals up to three decimal places.
Describe and extend number sequences including those with \times and \div and those where the step is a decimal or fraction.
Create a number pattern by multiplying or dividing by a constant to get the next term.
Show a clear understanding of the different structures of multiplication and division and the related vocabulary and am able to apply this to solving increasingly complex problems.
Apply knowledge of the inverse operation and the links between division and multiplication to solving problems.
Solve problems of increasing complexity using a range of strategies and am able to communicate my reasoning.

Fractions, ratio and proportion

Show a very good understanding of the connections between fractions decimals and percentages and is able to use their knowledge to translate between the three.
Apply their knowledge of fractions, decimals and percentages to problems of increasing complexity and to explain their reasoning and thinking.
Apply links with division to solving increasingly complex problems.

Measurement

Convert fluently and efficiently between different units of measures and be able to reason about the multiplicative relationship between related measures.

Use their understanding of the concepts related to measures to solve increasingly complex problems.

Communicate reasoning and talk about mathematics using sophisticated mathematical language.

Geometry: Shapes, Position and Direction

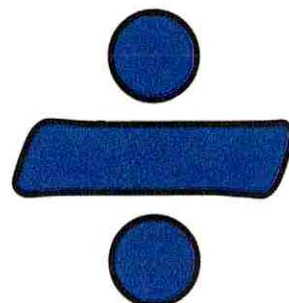
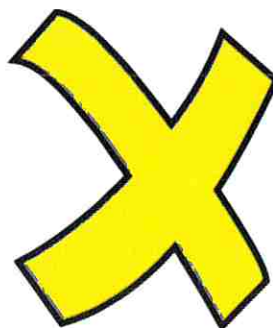
I can use straight edge and compasses to do standard constructions.
Sort and classify shapes using a wide range of criterion using increasingly sophisticated mathematically appropriate vocabulary.
Creatively apply knowledge of shapes to solving problems with increasing complexity and be able to justify reasoning and communicate their thinking.
Make links and connections with other areas of the curriculum and be able to generalise their understanding.
Solve increasingly complex problems involving position and movement.
Apply knowledge and understanding of position and movement to other curriculum areas such as geography and science.

Statistics and Algebra

Use knowledge of data handling to pose hypothesis and answer questions through the analysis and interpretation of data. Draw conclusions and communicate them.

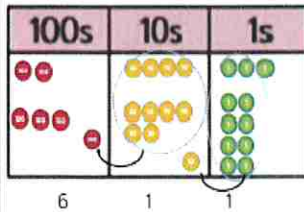
Statistics

Decide when to use the mode, median and range to describe a set of data.

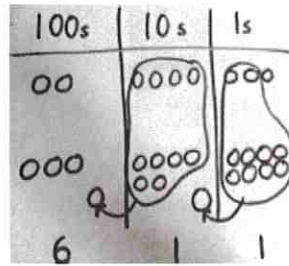


Addition

Use of place value counters to add HTO + TO, HTO + HTO etc. When there are 10 ones in the 1s column- we exchange for 1 ten, when there are 10 tens in the 10s column- we exchange for 1 hundred.



Children to represent the counters in a place value chart, circling when they make an exchange.



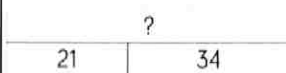
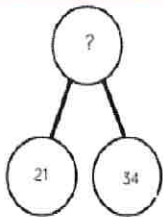
243

+368

611

1 1

Conceptual variation; different ways to ask children to solve 21 + 34



Word problems:

In year 3, there are 21 children and in year 4, there are 34 children. How many children in total?

21 + 34 = 55. Prove it

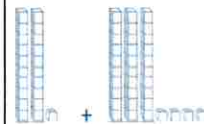
21

+34

21 + 34 =

 = 21 + 34

Calculate the sum of twenty-one and thirty-four.



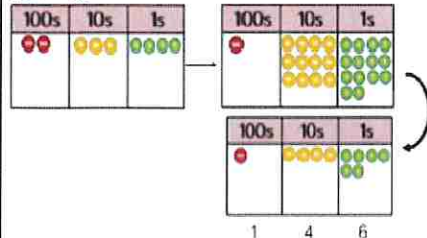
Missing digit problems:

10s	1s
2	1
3	?
?	5

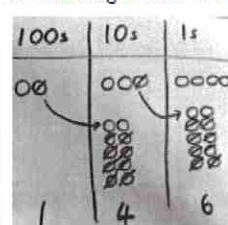
Subtraction

Column method using place value counters.

234 - 88



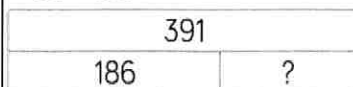
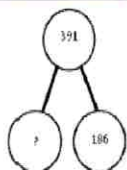
Represent the place value counters pictorially; remembering to show what has been exchanged.



Formal column method. Children must understand what has happened when they have crossed out digits.

234
- 88
6

Conceptual variation; different ways to ask children to solve 391 - 186



Raj spent £391, Timmy spent £186. How much more did Raj spend?

Calculate the difference between 391 and 186.

 = 391 - 186

391

-186

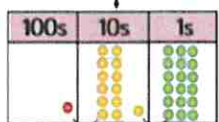
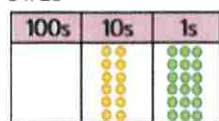
What is 186 less than 391?

Missing digit calculations

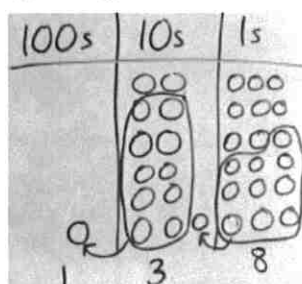
3 9
- 6
6
 0 5

Multiplication

Formal column method with place value counters.
 6×23



Children to represent the counters/base 10, pictorially
e.g. the image below.



Formal written method

$$6 \times 23 =$$

$$\begin{array}{r} 23 \\ \times 6 \\ \hline 138 \\ 11 \end{array}$$

When children start to multiply $3d \times 3d$ and $4d \times 2d$ etc., they should be confident with the abstract:

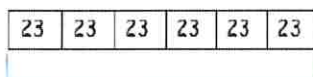
To get 744 children have solved 6×124 .

To get 2480 they have solved 20×124 .

$$\begin{array}{r} 124 \\ \times 26 \\ \hline 744 \\ 2480 \\ \hline 3224 \end{array}$$

Answer: 3224

Conceptual variation; different ways to ask children to solve 6×23



?

Mai had to swim 23 lengths, 6 times a week.

How many lengths did she swim in one week?

With the counters, prove that $6 \times 23 = 138$

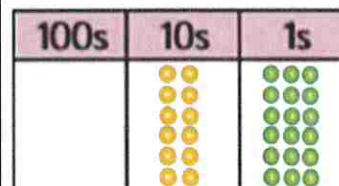
Find the product of 6 and 23

$$6 \times 23 =$$

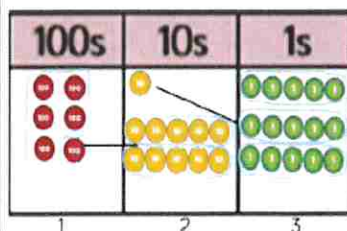
$$\square = 6 \times 23$$

$$\begin{array}{r} 6 \quad 23 \\ \times 23 \quad \times 6 \\ \hline \end{array}$$

What is the calculation?
What is the product?

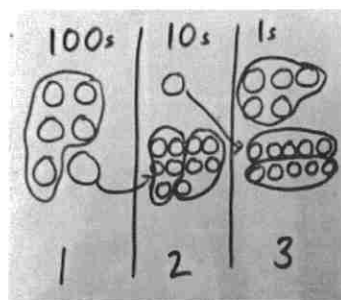


Short division using place value counters to group.
 $615 \div 5$



1. Make 615 with place value counters.
2. How many groups of 5 hundreds can you make with 6 hundred counters?
3. Exchange 1 hundred for 10 tens.
4. How many groups of 5 tens can you make with 11 ten counters?
5. Exchange 1 ten for 10 ones.
6. How many groups of 5 ones can you make with 15 ones?

Represent the place value counters pictorially.



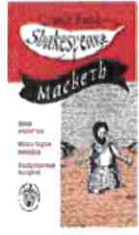



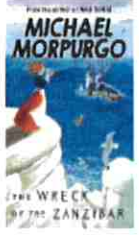
Children to the calculation using the short division scaffold.

$$\begin{array}{r} 123 \\ 5 \overline{) 615} \end{array}$$

Literacy

Texts year 5 are

reading

<u>Term 1</u>	<u>Term 2</u>	<u>Term 3</u>	<u>Term 4</u>	<u>Term 5</u>	<u>Term 6</u>
<p>London Eye Mystery</p> 	<p>Macbeth</p> 	<p>Beowulf</p> 	<p>Viking Boy</p> 	<p>Treason</p> 	<p>Wreck of the Zanzibar</p> 
<p><u>Fiction</u></p> <p>Diary Informal letter</p>	<p><u>Fiction</u></p> <p>Playscript</p>	<p><u>Fiction</u></p> <p>Narrative (Beating the monster story)</p>	<p><u>Fiction</u></p> <p>Narrative Research (Norse Myths)</p>	<p><u>Fiction</u></p> <p>Narrative (new chapter)</p>	<p><u>Fiction</u></p> <p>Narrative (disaster story)</p>
<p><u>Non-Fiction</u></p> <p>Information text (autism)</p>	<p><u>Non-Fiction</u></p> <p>Newspaper Discussion (Monarchy/Government EU Parliament BREXIT)</p>	<p><u>Non-Fiction</u></p> <p>Explanation (how dragons look after their treasure)</p>	<p><u>Non-fiction</u></p> <p>Balanced argument</p>	<p><u>Non-Fiction</u></p> <p>Persuasion</p>	<p><u>Non-Fiction</u></p> <p>Non-chronological report (Isle of Scilly)</p>

Literacy; writing

By the end of the year.....

- Spell many words from the YR 5-6.
- Handwriting is legible and joined.
- Write to suit purpose and audience, independently using appropriate features.
- Organise writing into sections or paragraphs; create cohesion by linking ideas within paragraphs.
- Use dialogue to indicate character and event.
- Describe characters, settings and plot, with growing precision.
- Usually maintain correct tense.
- Indicate degrees of possibility using adverbs e.g. perhaps, surely; and modal verbs e.g. might, should, must.
- Demarcate sentences correctly. Use comma for a pause in complex sentences. Begin to use punctuation for parenthesis: brackets, commas, dashes.

Examples:

The man, who was tall, hit his head on the wooden beam.

After a while, the sun began to set, as the clouds gathered together for a meeting in the dark sky.

The boy (named Charlie) was friendly and caring.

The moon rose in the night sky—it was a full moon.

- Write a range of sentence structures which are grammatically accurate. Understand 'relative clause' which begins with relative pronouns: who, which, where, when, whose.

Examples

The chair, which was made of metal, collapsed as the boxes were placed on top.

A monster, that was hideous to look at, lived within the depths of the murky cave.

The children, who were always well behaved, settled to their work quickly.

Literacy; writing

For a challenge by the end of the year.....

- Spell correctly most words from the year 5-6 list.
- Handwriting is legible and joined even when writing at speed.
- Write to suit purpose and audience, independently using appropriate features. May include humour or suspense.
- Organise writing into cohesive paragraphs. Expand on relevant detail within paragraphs.
- Use dialogue effectively to develop character and event. Achieve balance between dialogue and narrative writing.
- Describe characters, setting and atmosphere with precision.
- Maintain the correct tense.
- Demarcate sentences correctly, using a growing range of punctuation e.g. a comma to avoid ambiguity; brackets, commas, dashes. Write, with confidence, a wide range of sentence structures which are grammatically accurate, including relative clauses.

Literacy; reading

By the end of the year.....

- Read and enjoy a growing repertoire of texts.
- Discuss and comment on themes and conventions.
- Provide straightforward explanations for the purpose of the language, structure and presentation of texts.
- Discuss their understanding of the meaning of new words.
- Discuss and evaluate the effect of the author's choice of language on the reader.
- Make comparisons within and across texts.
- Draw inferences and justify these with evidence from the text.
- Distinguish fact from opinion.
- Explain what they know or have read.

A challenge for the end of the year.....

- Read frequently and enjoy a wide repertoire of texts.
- Identify confidently many different text types.
- Competently recommend books to peers, giving sustained reasons.
- Discuss and comment on a variety of themes and conventions in a variety of genres.
- Explain and comment on the purpose of language, structure and presentation, clearly understanding how they contribute to meaning.
- Discuss their understanding of the meaning of challenging words in context.
- Draw more hidden and challenging inferences from the text and justify these with evidence.

Word list – years 3 and 4

accident(ally)	forward(s)	potatoes
actual(ly)	fruit	pressure
address	grammar	probably
answer	group	promise
appear	guard	purpose
arrive	guide	quarter
believe	heard	question
bicycle	heart	recent
breath	height	regular
breathe	history	reign
build	imagine	remember
busy/business	increase	sentence
calendar	important	separate
caught	interest	special
centre	island	straight
century	knowledge	strange
certain	learn	strength
circle	length	suppose
complete	library	surprise
consider	material	therefore
continue	medicine	though/although
decide	mention	thought
describe	minute	through
different	natural	various
difficult	naughty	weight
disappear	notice	woman/women
early	occasion(ally)	
earth	often	
eight/eighth	opposite	
enough	ordinary	
exercise	particular	
experience	peculiar	
experiment	perhaps	
extreme	popular	
famous	position	
favourite	possess(ion)	
February	possible	

Word list – years 5 and 6

accommodate	embarrass	persuade
accompany	environment	physical
according	equip (–ped, –ment)	prejudice
achieve	especially	privilege
aggressive	exaggerate	profession
amateur	excellent	programme
ancient	existence	pronunciation
apparent	explanation	queue
appreciate	familiar	recognise
attached	foreign	recommend
available	forty	relevant
average	frequently	restaurant
awkward	government	rhyme
bargain	guarantee	rhythm
bruise	harass	sacrifice
category	hindrance	secretary
cemetery	identity	shoulder
committee	immediate(ly)	signature
communicate	individual	sincere(ly)
community	interfere	soldier
competition	interrupt	stomach
conscience*	language	sufficient
conscious*	leisure	suggest
controversy	lightning	symbol
convenience	marvellous	system
correspond	mischievous	temperature
criticise (critic + ise)	muscle	thorough
curiosity	necessary	twelfth
definite	neighbour	variety
desperate	nuisance	vegetable
determined	occupy	vehicle
develop	occur	yacht
dictionary	opportunity	
disastrous	parliament	

YEAR: 5

Animals including humans



Lenny's words to learn

gestation	fetus
fertilisation	species
baby	toddler
adolescent	adult
elderly	puberty
hormone	develop
wrinkle	muscle
memory	cells
ageing	elastic

Lenny's facts to learn

I can describe the changes as humans age

I can create timelines to show growth

YEAR: 5

Earth and Space



Lenny's words to learn

Earth	axis
rotate	solar
star	planets
moon	orbit
lunar	orbit
revolve	sphere
Mercury	Venus
Mars	Jupiter
Saturn	Neptune

Lenny's facts to learn

I know how the Earth and other planets move relative to the Sun

I know how the Moon moves in relation to the Earth

I can describe the shape of the Sun, Moon and Earth

I know night and day happen due to the Earth's rotation

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YEAR: 5

Forces



Lenny's words to learn

force	gravity
friction	air
resistance	upthrust
weigh	Newton
particles	meter
surface	push
pull	balance
gears	levers
pulleys	springs

Lenny's facts to learn

I know what gravity is

I know how air resistance, water resistance and friction act between moving surfaces

I know that smaller forces can have greater effect when used with levers, pulleys and gears

YEAR: 5

Properties and changes in materials



Lenny's words to learn

thermal	conductor
insulator	electrical
dissolve	solvent
solution	soluble
solid	liquid
particles	suspension
sieve	filter
evaporate	condense
separate	gases

Lenny's facts to learn

I know hardness, solubility, transparency, conductivity and magnetism are properties of materials

I can group materials depending on their properties

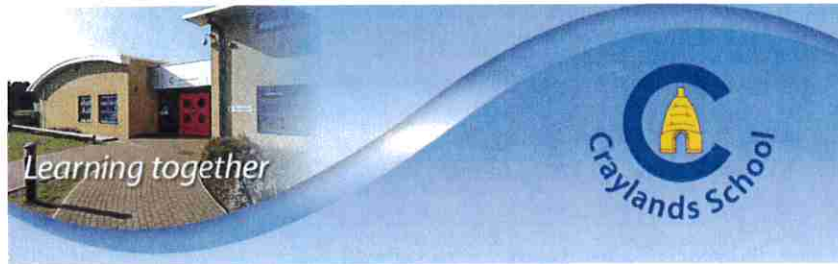
I know some materials will dissolve in liquid

I know how to recover a substance from a solution

I know how solids, liquids and gases can be separated using filtering, sieving and evaporation

YEAR: 5

Living things and their habitat



Lenny's words to learn

amphibian	reptiles
birds	mammals
insect	fish
larva	pupa
nymph	metamorphosis
germination	stamen
Anther	filament
carpel	stigma
pollination	fertilisation

Lenny's facts to learn

I can describe differences in the life cycles of a mammal, an amphibian, an insect and a bird

I can describe the life cycle of common plants

I know about a famous naturalist or animal behaviourist

YEAR: 5 TOPIC: Cultural Europe/Landmarks



Lenny's words to learn

landmarks	An object or feature of a landscape or town that is easily seen and recognised from a distant; can be used to establish where you are.
grid references	A map reference indicating location in terms of vertical and horizontal grid lines identified by numbers or letters.
tourism	The process of people travelling for fun.
Greenwich meantime	The place where time differences are measured from.
currency	The money that a country uses.
Europe	A continent that the UK is part of.
English Channel	The stretch of water between England and France.
Capital	The main city of a country where government exists.
population	The number of people who live somewhere.

Lenny's facts to learn

Swanscombe is in Kent, England which is part of the United Kingdom, which is part of the continent of Europe. London is the capital city.

There are landmarks across Europe including the Shard, London Eye, Big Ben, Tower Bridge and Buckingham Palace in London; Eiffel Tower, Arc du Triomphe, Notre Dame in Paris, France; the Colosseum in Rome, Italy and Tower of Pisa in Pisa, Italy.

The currency of Europe is the Euro, however there are some countries in Europe with their own currency still.

Countries to the right of the Greenwich Mean line are ahead of the UK in terms of time; countries to the left are behind.

YEAR: 5



TOPIC: Anglo Saxons



Lenny's words to learn

Anglo Saxons	The Germanic inhabitants of England from their arrival in the 5th century up to the Norman Conquest.
Bayeaux Tapestry	An embroidered cloth, about 70 metres long, illustrating events leading up to the Norman Conquest and made between 1066 and 1077.
runes	A letter of an ancient Germanic alphabet, related to the Roman alphabet.
Sutton Hoo	An Anglo Saxon grave was discovered in Sutton Hoo.
Offa's Dyke	Offa's Dyke is a large earthwork that roughly follows the current border between England and Wales. The structure is named after Offa , the 8th century king of Mercia.
thatched house	A house with a roof made with straw.
Alfred the Great	Alfred the Great was the King of Wessex, an Anglo-Saxon kingdom in southwestern England; he is best known for preventing the Viking conquest of England.

Lenny's facts to learn

In 410, the Romans left England because their homes in Italy were being attacked by fierce tribes and every soldier was needed.

Angles, Saxons and Jutes from across the North Sea who had been raiding the coast of Britain for a hundred years began to settle in 450AD here. The invasion consisted of a series of attacks on different parts of the country over a period of years and under a number of leaders.

The Anglo-Saxons left their homelands in northern Germany, Denmark and The Netherlands and rowed across the North Sea in wooden boats to Britain.

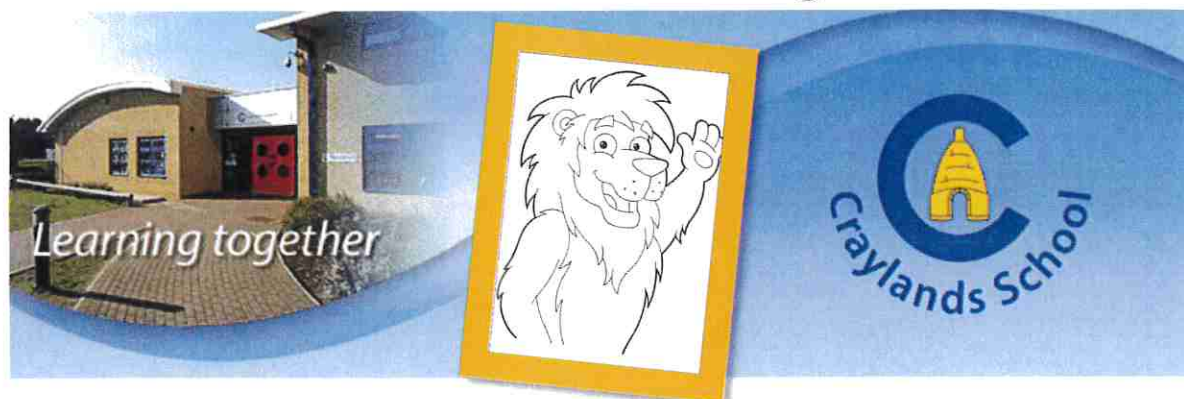
The Anglo-Saxons were pagans when they came to Britain, but, as time passed, they gradually converted to Christianity.
Pagans worshiped lots of different gods.

By about 600, England was divided into small Anglo-Saxon kingdoms each ruled by a king.
Much of what we know about the Anglo-Saxons comes from graves like the one discovered at Sutton Hoo in Suffolk.

YEAR: 5



TOPIC: Vikings



Lenny's words to learn

Vikings	The Germanic inhabitants of England from their arrival in the 5th century up to the Norman Conquest.
Bayeux Tapestry	An embroidered cloth, about 70 metres long, illustrating events leading up to the Norman Conquest and made between 1066 and 1077.
Long ship	Longships were seagoing vessels made and used for trade, exploring, and raiding.
Danelaw	The areas the Viking settled in were known as Danelaw
Offa's Dyke	Offa's Dyke is a large earthwork that roughly follows the current border between England and Wales. The structure is named after Offa , the 8th century king of Mercia.
Odin	The leader of the Viking Gods.
Alfred the Great	Alfred the Great was the King of Wessex, an Anglo-Saxon kingdom in southwestern England; he is best known for preventing the Viking conquest of England.

Lenny's facts to learn

In the ninth century (Year 800), 400 hundred years after the Anglo-Saxons invaded England, the country came under attack from Viking raiders from Norway and northern Denmark.

Vikings were also known as the Norsemen. They were great travellers and sailed to other parts of Europe, where they traded, raided, and often settled.

Many Vikings were great travellers and sailed all over Europe and the Atlantic Ocean in their longships. Their longships could sail in shallow water which meant they could travel up rivers as well as across the sea

The Vikings were also farmers, fishermen, trappers and traders. Viking craftsmen made beautiful objects out of wood, metal and bone; Viking women were skilful weavers, produced fine, warm textiles.

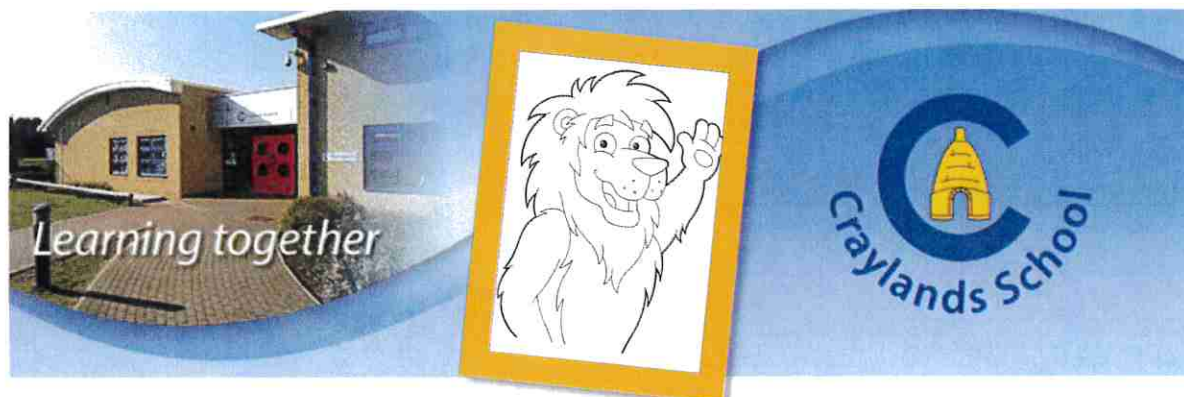
Vikings invaded for better land for growing crops or rearing animals; More Land because of overcrowding; the Vikings searched for treasures to make them rich.

The end of Anglo Saxon/Viking Britain is shown in the images of the Bayeux Tapestry.

YEAR: 5



TOPIC: Crime and Punishment



Lenny's words to learn

punishment	The consequence for committing a crime.
execution	To legally end someone's life for a crime.
guillotine	A machine for cutting off someone's head
hanging	To be killed on the gallows by tying a rope around the neck
pick pocketing	A thief who steals from pockets and purses.
smuggling	To export or import secretly and unlawfully
vandalism	Intentional destruction of or damage to property.
justice	The upholding of what is fair, just, and right
law	A rule of conduct or action that a nation or a group of people agrees to follow.

Lenny's facts to learn

The punishment for committing a crime in Rome was not the same for everyone. What punishment you received depended on your status. If you were a wealthy patrician you would receive far less punishment than a slave would for the same crime.

If you were found guilty in Anglo Saxon Britain there was always the option of trial by ordeal. Examples of 'Ordeals' were

- Walking at least nine feet on hot coals
- Putting your hand in boiling water to retrieve a stone
- Picking up a red hot iron
- Tied up and thrown into a river

There were no police during the Tudor times. However, laws were harsh and wrongdoing was severely punished. In Tudor times the punishments were very, very cruel. People believed if a criminal's punishment was severe and painful enough, the act would not be repeated and others would deter from crime as well.

The penalty for the most serious crimes would be death by hanging, sometimes in public. However, during the Victorian period this became a less popular form of punishment, especially for smaller crimes, and more people were transported abroad (sometimes all the way to Australia!) or sent to prison instead.

YEAR: 5 TOPIC: Coasts



Lenny's words to learn

Erosion	Erosion is a process where natural forces like water, wind, ice, and gravity wear away rocks and soil.
Arches	A natural arch , natural bridge, or (less commonly) rock arch is a natural rock formation where an arch has formed with an opening underneath.
Tourism	The process of people travelling for fun.
Stacks	A stack or sea stack is a geological landform consisting of a steep and often vertical column or columns of rock in the sea near a coast, formed by wave erosion.
caves	A cave is a natural hollow space under the ground that has an opening large enough for a person to enter.
English Channel	The stretch of water between England and France.
coasts	The coast is the place where land and sea meet.
counties	A county is a specific region of a country.

Lenny's facts to learn

Coasts, especially those with beaches and warm water, attract tourists. Coasts offer recreational activities such as swimming, fishing, surfing, boating, and sunbathing.

Coasts have changed over millions of years. They are affected by geological events such as volcanic activity, ice ages, and changes in sea levels. Two other factors that affect the shape and type of coast are erosion and deposition.

Erosion at the coast can result in the formation of features such as sea caves, arches, bays, and coves. It can also cause the destruction of land and homes when cliffs fall into the sea.

Water, wind, and ice cause erosion by wearing away rocks or soil.

Deposition is the laying down of materials, such as rocks, stones, gravel, sand, and mud. Sandy beaches, estuaries, sand bars, spits, deltas, and lagoons are the result of deposition.