Year 3 Maths Knowledge Organiser - Autumn 2



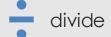
Key Vocabulary

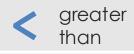














3 digit and 2 digit numbers

3-digit and 2-digit numbersAdd and subtract tens

Hundred	Ten	Ones
00	000	0

451 + 3 tens = 481 (5 + 3 = 8) 451 - 4 tens = 411 (5 - 4 = 1)

Crossing 10s (Exchanging)

258 + 80 = 338

- · Column method
- · Count in 10s mentally
- · Add 100, subtract 20

Crossing 10 and 100

368	368	368
+73	+73	+73
1	41	441
1	1(1)	1)1

16

20

Multiples of 2, 4 and 8

24

40 48

28 | 32

56

64

Estimate Answers

Divide number lines into smaller sections to help estimate marked numbers. Estimate by dividing the hundred into 250 and 225.

Estimate 10s (230, 240) between 225 and 250.



Check Answers

500

347							
			273				74
		070	-	 			

347 – 74 = 273 can be checked using

300

273 + 74 = 347

48

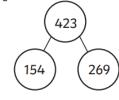
20

72 80 88 96

36

400

This part whole shows the inverse calculations using these three numbers.



800

Doubling Numbers



4 x 4 = 16

8 x 4 = 32

 $2 \times 6 = 12$

 $4 \times 6 = 24$

8 x 6 = 48

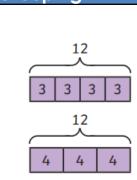
Pupils use their understanding of doubling to connect the 2, 4 and 8 multiplication tables.



12 ÷ 4 = 3

12 counters are shared equally between 4 children.

12 counters are grouped into packs of 4.



Multiplication Facts

3x Table	
0 x 3 = 0	
1 x 3 = 3	
2 x 3 = 6	
3 x 3 = 9	
4 x 3 = 12	
5 x 3 = 15	
6 x 3 = 18	
7 x 3 = 21	
8 x 3 = 24	
9 x 3 = 27	
10 x 3 = 30	
11 x 3 = 33	
12 x 3 = 36	

4x Table	8x Table
$0 \times 4 = 0$	$0 \times 8 = 0$
1 x 4 = 4	1 x 8 = 8
2 x 4 = 8	2 x 8 = 16
3 x 4 = 12	3 x 8 = 24
4 x 4 = 16	4 x 8 = 32
5 x 4 = 20	5 x 8 = 40
6 x 4 = 24	6 x 8 = 48
7 x 4 = 28	7 x 8 = 56
8 x 4 = 32	8 x 8 = 64
9 x 4 = 36	9 x 8 = 72
10 x 4 = 40	10 x 8 = 80
11 x 4 = 44	11 x 8 = 88
12 x 4 = 48	12 x 8 = 96



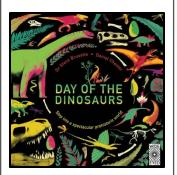
Year 3 English Knowledge Organiser - Autumn 2



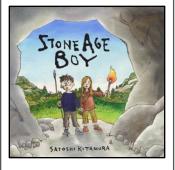
Whittingham Primary Academy

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Core Texts



Day of the Dinosaurs Steve Brusatte



Stone Age Boy Satoshi Kitamura

Features of Text Type: Writing to Inform

Grammatical features:

In line with the purpose to **inform**, the text contains interesting facts, supported by the use of technical vocabulary specific to the topic.

Despite the historical nature of the content, the text uses the **present tense** to make the reader feel as though they are experiencing life in pre-historic times first-hand.

A wide range of conjunctions are used to connect ideas and to create multi-clause sentences.

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Structural Features:

An introductory statement presents the topic and draws the reader in.

Simple devices such as headings and sub-headings organise material and guide the reader through the text.

Material is grouped into paragraphs or sections of related content.

The information on each page is written nonchronologically, meaning that the text is not timerelated and therefore the main body of the text can be written in any order.

Images help the reader to visualise the information within the text, exemplifying and providing clarity.

Features of Text Type: Developing Dialogue

Beginning and End

Keep your inverted commas at the beginning and the end of the words being spoken. "Stop!" I said.

New Speaker, New Line

Start a new line whenever someone new speaks.

"How are you doing today?" asked Henry.

"I'm great!" said Ashton.

Capital Letter

Begin what is spoken with a capital letter!

"What an amazing day!" he announced.

Punctuation

Make sure your speech is correctly punctuated! "There are times, I feel, that you are a little cold," I said.

Commas

Remember to add commas. Ashton whispered, "Be quiet!" "Goodbye," said Jules.



Year 3 Science Knowledge Organiser - Autumn 1

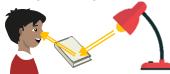


Key Vocabulary

Key Vocabulary	
control variables	the things that could impact an investigation result, which we therefore need to keep the same where possible
dependent variable	the thing we measure (it depends on the other variable)
independent variable	the thing we change
emit	produce and give off something
matte/dull	objects that are matte or dull are not shiny
reflection	when light bounces off the surface of an object

How do we see?

- We need light to see.
- Light travels in straight lines.
- We see an object when light is reflected
 (bounced off) an object and enters our eye.



• **Darkness** is the absence of light. We cannot see in complete darkness.

Light Sources

- A source of light is something that emits (produces) its own light. We can describe light sources as luminous objects.
- Natural light sources include the Sun, fire and fireflies.
- Artificial (man-made) light sources include torches, lamps and televisions.
- Shiny objects are not light sources.
 They appear shiny because they reflect lots of light from light sources.

Fossils

Light can travel through some materials



transparent materials let nearly all light through.



translucent materials let some light through.



opaque materials let no light pass through. We cannot see through opaque materials.

Shadows

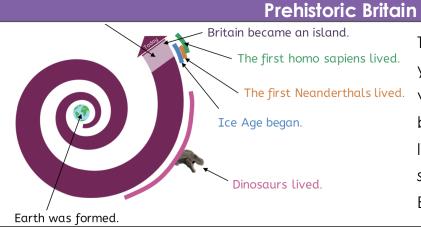
- A **shadow** is formed on a surface behind an object, when the object does not allow light to pass through it.
- The closer the object is to the light source, the larger the shadow will be.
 (See diagrams, right).
- We can also change the position and length of shadows by changing the position of the light source.



Year 3 History Knowledge Organiser - Autumn 2



Key Vocabulary		
agriculture	the practice of farming, including growing crops and raising animals like sheep and cows.	
archaeology	the scientific study of the remains of past human life and activities	
artefact	something that a human has made and then left behind	
ecofact	natural objects that have been used in some way by humans and left behind	
geoglyph	a large design created on the ground, either by adding or removing rocks in a pattem	
hominin	a group of species that are very closely related to modern humans	
homo sapiens	the name of our modern species of human	



The Earth was formed billions of years ago. The dinosaurs lived a very long time ago but died out before any human animals – like Neanderthals or homo sapiens like us – walked the Earth.

