

Saint Nathaniel's Academy Knowledge Organisers

Spring Term 1 Year 3

Crucial Knowledge

Knowledge Organiser **Multiplication and Division** Key Vocabulary Multiplication and Division Facts (3, 4 and 8 multiplication tables) times tables 2 3 4 5 10 11 12 3 x Tables k x Tables 8 x Tables multiply by 11 divide by 18 12 14 22 10 16 20 24 $1 \times 3 = 3$ $1 \times 4 = 4$ 1 × 8 = 8 array 12 15 18 21 27 33 $2 \times 3 = 6$ $2 \times 4 = 8$ $2 \times 8 = 16$ fact families $3 \times 3 = 9$ $3 \div 3 = 1$ $3 \times 4 = 12$ $4 \div 4 = 1$ $3 \times 8 = 24$ $8 \div 8 = 1$ 24 28 36 16 20 32 regrouping $4 \times 3 = 12$ $4 \times 8 = 32$ $6 \div 3 = 2$ $8 \div 4 = 2$ 16 ÷ 8 = 2 30 35 45 10 15 20 25 55 24 ÷ 8 = 3 $9 \div 3 = 3$ $5 \times 8 = 40$ $5 \times 3 = 15$ $5 \times 4 = 20$ $12 \div 4 = 3$ $6 \times 3 = 18$ $12 \div 3 = 4$ $6 \times 4 = 24$ $16 \div 4 = 4$ $6 \times 8 = 48$ 32 ÷ 8 = 4 24 36 30 42 54 66 18 48 $7 \times 3 = 21$ $15 \div 3 = 5$ 20 ÷ 4 = 5 $7 \times 8 = 56$ 40 ÷ 8 = 5 63 28 35 42 49 77 56 $8 \times 3 = 24$ $18 \div 3 = 6$ $8 \times 4 = 32$ $24 \div 4 = 6$ $8 \times 8 = 64$ 48 ÷ 8 = 6 $9 \times 3 = 27$ $9 \times 8 = 72$ 24 32 40 48 56 72 $21 \div 3 = 7$ $28 \div 4 = 7$ 56 ÷ 8 = 7 64 88 $10 \times 3 = 30$ 24 ÷ 3 = 8 $10 \times 4 = 40$ $10 \times 8 = 80$ 64 ÷ 8 = 8 $32 \div 4 = 8$ 27 36 45 54 63 72 81 99 108 $11 \times 3 = 33$ $27 \div 3 = 9$ $11 \times 4 = 44$ $36 \div 4 = 9$ 11 × 8 = 88 $72 \div 8 = 9$ 90 100 110 120 12 × 3 = 36 $12 \times 4 = 48$ 12 × 8 = 96 80 ÷ 8 = 10 $30 \div 3 = 10$ 40 ÷ 4 = 10 88 ÷ 8 = 11 33 ÷ 3 = 11 44 ÷ 4 = 11 〔77〕 44 55 66 88 99 | 110 | 121 | 132 | 11 | 22 | 33 96 ÷ 8 = 12 $36 \div 3 = 12$ 48 ÷ 4 = 12 12 72 60 84 96 108 | 120 | 132 | 144 Write and Calculate Mathematical Statements **Related Calculations** $4 \times 8 = 32$ $8 \times 4 = 32$ $5 \times 3 = 15$ $3 \times 5 = 15$ $3 \times 4 = 12$ $4 \times 3 = 12$ $32 \div 8 = 4$ $32 \div 4 = 8$ $15 \div 3 = 5$ $15 \div 5 = 3$ 0000 00000 00000 $30 \times 4 = 120$ $40 \times 3 = 120$ 00000 0000 twinkl visit twinkl.com 0000 0000

Crucial Knowledge

Multiplication and Division

Knowledge Organiser

 $24 \times 4 = 96$

0

4

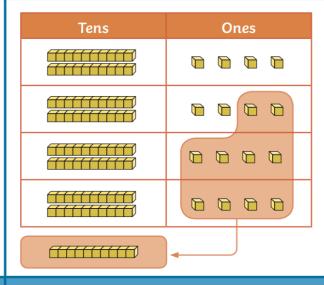
Written Multiplication Methods - No Regrouping

Tens	Ones

$23 \times 3 = 69$	
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	Т	0
	2	3
×		3
	6	9

Written Multiplication Methods - With Regrouping



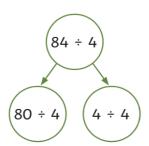
Т
2

×		4
	9	6
	1	

Written Division Methods - No Regrouping

Tens	Ones

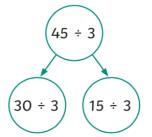
	2	1
4	8	4



Written Division Methods - With Regrouping

Tens	Ones	
	—	

	1	5
3	4	¹ 5





<u>The book - Fiction</u>

Title: Stone Age Boy Author: Satoshi Kitamura

Summary: One day a little boy is walking along when he trips, stumbles and falls ... into the Stone Age! He meets a girl his own age and her tribe, and learns all about their way of life. He watches them make tools, clothes and weapons. He sees how they hunt, fish, cook, celebrate - and even how they paint on the walls of caves. But when a furious cave bear attacks, he wakes up back in his own time where everyone tells him it was only a dream. But was it?



<u>Spelling</u>

floor door poor flour prove clotfles improve busy people century flistory

Spoken language

- Listen and respond
- Build vocabulary
- Articulate and justify answers
- Participate in discussions, presentations, performances, roles plays and debates.

Writing composition

- Discuss and record ideas
- Create settings, characters and plot
- Use headings and subheadings
- Write in paragraphs
- Plan writing by discussing the structure, vocab and grammar of similar writing
- Proof read for spelling and punctuations errors.

Punctuation

Question marks? Commas,

Exclamation marks ! Apostrophes *

Guided Reading - The Iron Man Ren The Iron Man

Where had he come from? Nobody knows.'

'How was he made? Nobody knows.'

All the people of the village think that the Iron Man is a monster. He has been eating every single piece of metal in sight.

He has been destroying farms everywhere. They might all be

right. But will he change from villain to hero when the real monster comes?

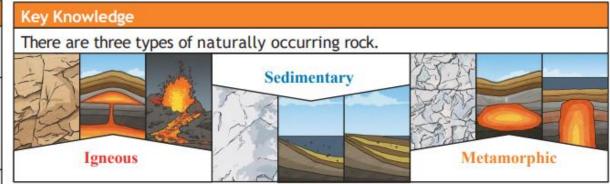


Vocabulary

infra -red nothingness swayed craned gleefully speechlessly immense breakers torso towering puzzled monstrosity



igneous rock	Rock that has been formed from magma or lava.
sedimentar y rock	Rock that has been formed by layers of sediment being pressed down hard and sticking together. You can see the layers of sediment in the rock.
metamorphi c rock	Rock that started out as igneous or sedimentary rock but changed due to being exposed to extreme heat or pressure.
magma	Molten rock that remains underground.
lava	Molten rock that comes out of the ground is called lava.
sediment	Natural solid material that is moved and dropped off in a new place by water or wind, e.g. sand.
permeable	Allows liquids to pass through it.
impermeable	Does not allow liquids to pass through it.



Natural Rocks			Human-made
Igneous	Sedimentary	Metamorphic	Rocks
Obsidian	Chalk	Marble	Brick
Granite	Sandstone	Quartzite	Concrete
AAR			
Basalt	Limestone	Slate	Coade Stone
HALL	A Comment		

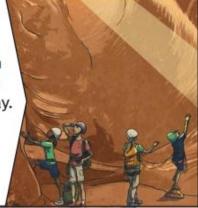
Some words you might use to discuss the properties of a rock:

hard, soft, permeable, impermeable, durable (meaning resistant to weathering), high density, low density. Density measures how 'bulky' the rock is (how tightly packed the molecules are).



Key Vocabulary	
fossilisation	The process by which fossils are made.
palaeontology	The study of fossils.
erosion	When water, wind or ice wears away land.

Caves are formed when water permeates through the base rock and erodes some of the rock away. Over thousands of years these caves can become very large.



Key Knowledge Soil Soil is the uppermost layer of the Earth. It is a mixture of different things: minerals (the minerals in soil topsoil come from finely broken-down rock); air; subsoil water: organic matter (including living and dead plants

baserock

Fossilisation An animal dies. It gets | More layers of rock cover Over thousands of years, Changes in sea level take erosion As and sediment might enter the covered with sediments it. Only hard parts of the place over a long period. weathering take place, mould to make a cast creature remain, e.g. eventually the fossil which eventually become bones, shells and teeth. fossil. Bones may change becomes exposed. rock. to mineral but will stay the same shape.

and animals).

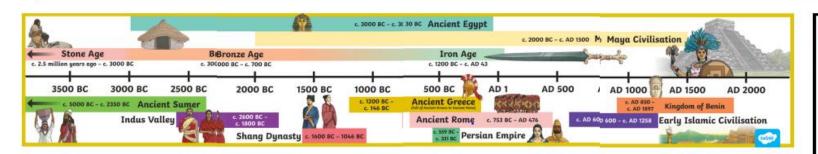


Year 3 Spring 1 - Early Civilisations

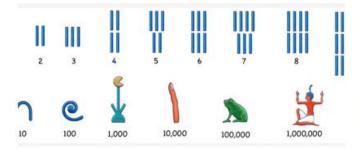
Children will be able to...

Historical Enquiry

- Explore where and when the first civilisations began
- Find out about the first writing systems
- Explore trade in early civilisations
- Find out about mathematical understanding in early civilisations
- Explore the technology and inventions of early civilisations
- Explore buildings and architecture of early civilisations









Key Vocabulary

Civilisation

Ancient

Settlement

Hierarchy

Agriculture

Domestication

Trade



Crucial Knowledge Art: Spring Year 3 - William Morris



Drawing - Line, pattern and texture

- I can recreate a wallpaper pattern in the style of William Morris
- I can use soft, light sketching techniques to create a still life sketch
- I can sketch repeating patterns in nature



Painting, printing and colour

- I can explore different types of printing techniques
- I can use a printing block to create repeated patterns
- I can mix and explore different colours to Create new shades and tones

Responding to artwork and using a sketchbook

- I can observe and describe elements of William Morris' artwork
- I can find similarities and differences between the different works of William Morris
- I can describe what the Arts and Craft movement was









Unit: 3.4
Touch Typing

Key Learning

- · To introduce typing terminology.
- To understand the correct way to sit at the keyboard.
- To learn how to use the home, top and bottom row keys.
- To practise typing with the left and right hand.

Key Resources





Key Vocabulary

Posture

The correct way to sit at the computer.

Keys

Buttons that are pressed on a computer keyboard or typewriter. These can be described by their position; bottom row, top row and home row (middle row).

Space bar

The bar at the bottom of the keyboard.

Typing

The action or skill of writing something by means of a typewriter or in this case a computer.

Key Questions

Why should I have a good posture at the computer?

A good posture is important to help you avoid any injuries that come from repeatedly using the computer incorrectly.

Why should I type certain keys with certain fingers?

Using specific fingers for specific keys allows you to type more quickly.

Check to see if your eyes are level with the top of your screen. Put your fingers of your wrists are



Posture

