

Year 4 Learning Grid

Week Commencing 8th February 2021

	Fast Maths	Guided Reading	Maths	English	Topic
Monday	Column addition/mental addition	Jamie Drake Equation Comprehension. P46-49	Multiply a 3-digit numbers by a 1-digit number.	Find the shape - New unit starter - non-chronological reports Spellings	Moon landing timeline
Tuesday	Short multiplication 1-digit x 2-digit	Jamie Drake Equation Comprehension. P50-54	Multiply a 3-digit numbers by a 1-digit number.	Find the shape - sorting information	Science/Topic Stars and Constellations
Wednesday	Multiply 1-digit by 3-digit number (non-carrying)	Read for pleasure - Minimum 30 minutes focussed reading.	Division recap - Dividing 2-digit by 1 digit number	Experience day - vertebrates and invertebrates	Screen Free Afternoon • Get creative and make something!
Thursday	Multiply 1-digit by 3-digit number (carrying)	Jamie Drake Equation Comprehension.	Division	Non-chronological report features and animal facts	Music -Miss Siddle - Song writing
Friday	Mental division	Jamie Drake Equation Comprehension.	Division	• Spelling Test	• PE Challenges • Jigsaw - Funniest potato

Fast Maths

8.2.21

Ob - To add mentally or using a written method.

$$48 + 64 =$$

$$75 + 75 =$$

$$49 + 98 =$$

$$75 + 64 =$$

$$89 + 85 =$$

$$93 + 95 =$$

$$80 + 99 =$$

$$75 + 96 =$$

$$132 + 64 =$$

$$356 + 74 =$$

Maths - Monday 8th February

Fluency 1

a)

		H	T	O	
		2	1	7	
	x			4	

b)

		H	T	O	
		4	3	9	
	x			2	

c)

		H	T	O	
		1	0	8	
	x			6	

Fluency 2

d) 163×5	<u>Answer here</u>
e) 3×240	<u>Answer here</u>
f) 7×131	<u>Answer here</u>

Application 1

A lorry driver travels 156 km per day.

How many kilometres will the lorry driver have travelled after 3 days?

Application 2

6 Ron and Teddy are working out 5×245



Ron

I know the answer will be greater than 1,000 because I know 5×200 is 1,000

I know the answer should end in 5 because I know 5×5 is 25



Teddy

a) Who is correct?

Ron

Teddy

both

neither

b) Use a written method to work out 5×245

Application 3

There are 7 year groups in a school.

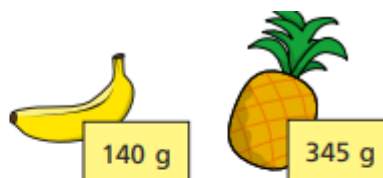
There are 112 children in each year group.

How many children are there in the whole school?

Application 4

A banana weighs 140 g

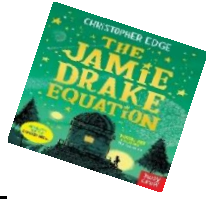
A pineapple weighs 345 g



Bag A contains 8 bananas and bag B contains 3 pineapples.

Which bag weighs more and by how much?

Show your working.



Guided Reading -

Monday 8th February 2021

NCO - to retrieve information from texts.

· I can retrieve information from texts.

Read pages 46-49










1. How many alien civilisations are believed to be in the Milky Way? p46
2. What type of telescope have the astronomers been using to scan the skies? p47
3. What year did the Big Ear Observatory in the United States receive a strong radio signal? p47
4. What do the satellites do? p48
5. What is Professor Foster's secret? p49
6. What does L.O.G.S stand for? P49

Challenge - Find and copy the sentence that tells you on page 48 how Jamie felt when the signal to find alien civilisation couldn't be found again.

Tasks:

1. To copy the correct description against the symbols using the word bank below.
2. Read the text from the video. (you might need some help!)
3. Complete the grid with ideas of the sort of information you would need. to write a report about a different animal

Task 1

	Type answers in these boxes
	
	
	
	
	
	
	
	
	

Hook	Glossary	Intro	Special
Skill	Body Parts	Questions And Answers	Wow Facts
Heading			

Task 2

**Clever enough to think and reason about the feelings of others.
Cooperative enough to help others to reach a shared goal.**

The Homo-sapien!

Over many years, scientists have questioned what sets humans apart from all other mammals and wondered where humans came from.

What unique features do we have which make us human?
We know that Homo-sapiens evolved in Africa around 150,000 years ago, but how have we adapted over time?

Two Feet is Fab!

Marking us out from almost all other animals, is our ability to comfortably stand on two feet for extended periods of time. This ability came about through a series of changes to our skeleton, affecting our cranial base, spine, pelvis, femur, knees and feet. Like all mammals, humans are vertebrates and have an endoskeleton – a skeleton on the inside of the body.

When we grow, our skeleton grows with us.

The human skeleton is light, has strong weight bearing properties to stop us from becoming a jelly on the ground and protects our vital organs, such as our heart and lungs. Kerpow!
Fascinatingly, the human backbone is made up of 33 interlocking bones called vertebra. That's where the name vertebrate comes from – Backbone!

Muscle Mates!

In order to move parts of our skeleton we need our friend - muscles.

Similarly, to other animals with an endoskeleton, we use the skeletal muscles attached to the bones by tendons to help us move. So, the walking human moves a joint by contracting one muscle while the other muscle relaxes and becomes longer. Easy!

Endoskeleton: A skeleton on the inside of the body.

Homo-sapiens: The scientific name for the human species.

Mammal: Animals that are warm-blooded with hair or fur.

Tendon: A cord of tissue that attaches the end of a muscle to a bone.

Vertebrates: An animal with a backbone. The major groups include fish, amphibians, reptiles, birds and mammals.



Bones, Bones, Bones

If you think bones are useful, then you'll be pleased to know you have lots of them! In fact, there are over 200 bones in the human body! Long ones, small ones, light ones and one that isn't connected to any other!

Each of our hands contain 27 individual bones which we use to firmly grab, carefully pick and hold things up with such mastery that our skill is second to none. Applause!

Practise!

Have you ever tried cutting an apple, scraping a carrot or moulding plasticine?

Well, around 300,000 years ago, early humans were beginning to hone these skills shaping stone from flint. They would strike off flakes of flint and meticulously turn them into tools for specific purposes such as cutting, scraping piercing and carving.

Human Facts

Coupled with an increased intelligence, our adept ability at manipulating tools with our hands has enabled us to have an incredible influence over the world around us.

Did you know Homo-sapien means 'wise-man'?

However, some scientists believe that our physical abilities are no greater than any other animal on Earth and that what really makes us distinct and sets us apart from the rest of the animal kingdom is our ability to work together to be successful.

Introduction – general facts	Body parts
Special features	Did you know? (questions and answers)
Skills	Wow facts

Topic - Monday 8th February

For today's topic session we would like you to create a timeline which presents the key dates and events in space travel.

Use the link below which will send you to

[https://siriusacademy-my.sharepoint.com/:w:/r/personal/sburch_victoriadock_hull_sch_uk/_layouts/15/Doc.aspx?sourcedoc=%7B94C2DA51-0024-46B8-A112-C04C7BA0D49E%7D&file=spacetraveltimeline%20\(1\).doc&action=default&mobileredirect=true](https://siriusacademy-my.sharepoint.com/:w:/r/personal/sburch_victoriadock_hull_sch_uk/_layouts/15/Doc.aspx?sourcedoc=%7B94C2DA51-0024-46B8-A112-C04C7BA0D49E%7D&file=spacetraveltimeline%20(1).doc&action=default&mobileredirect=true)

Alternatively, you can also carry out your own research using a search engine of your choice to gather your information.

I have included an example of a finished space timeline. You can use this example to help you set yours out. You may want to present your information to me in a different way, it is up to you. Just make sure that the important events that you select are written in date order!

Your information **does not have to be typed out, you can present it in your own handwriting and can draw your own pictures if you wish.



Fast Maths 9.2.21

Ob - To multiply 1-digit by 2-digit numbers

$$46 \times 7 =$$

$$63 \times 7 =$$

$$87 \times 6 =$$

$$67 \times 8 =$$

$$77 \times 7 =$$

Maths - Tuesday 9th February

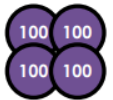
Fluency 1

Use written method to calculate the following:


- a) 2×435
- b) 2×532
- c) 3×463
- d) 4×435

Fluency 2

Use place value counters to represent the calculation.

H	T	O
		

	4	3	2
×			2
<hr/>			



Start with the _____ to exchange to _____ if needed.
If there are _____ or more 1s, exchange for a _____.
If there are _____ or more 10s, exchange for a _____.
If there are _____ or more 100s, exchange for a _____.







Now, represent the calculations below using place value counters alongside the formal written method.

$$243 \times 3$$

$$128 \times 4$$

Fluency 3

Write a word problem to match the calculation represented with place value counters.

H	T	O
		
		
		

Fluency 4

Ranjit and four of his friends climbed up a 184 foot tall tower block.



How many feet did we climb in total between us?



REASONING 1

Anita has been multiplying 3-digits by 1-digit.



	6	0	5
×			4
2	4	6	0

2

Describe and correct her error.

REASONING 2

Always, Sometimes or Never?

Any 3-digit number multiplied by a 1-digit number will result in a product that goes into the thousands.

Explain your reasoning!

REASONING 3

What number has Jerry covered up with a sticker?



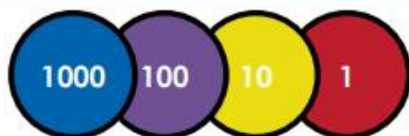
Explain how you know!

REASONING 4

Has the calculation been solved correctly?

Use place value counters to convince me.

$$213 \times 6 = 1,278$$



Guided Reading - Tuesday 9th February 2021

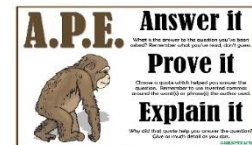


NCO - Inference - Make inferences from the text/explain why and justify using evidence from the text.

· I can make inferences from the text/explain why and justify using evidence from the text.

Read pages 50-54

Write a paragraph (at least 4 sentences) to describe how Jamie and Professor Forster are feeling in the pages you have just read. **Use evidence for the text to support your answers.**







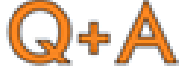



For example - I think Jamie is in shock as he has just found out that Professor Forster has 'hacked' the Hubble telescope. I know this because in the text it says 'I repeat, unable to believe what I'm hearing.'

Tasks:

4. Look at the shape of the non-chronological report.
5. Read the sections of text below and state which section it should belong to. Use the key to help you.

Task 1.

	Hook and heading
	Glossary (a list of words and what they mean.)
	Intro
	Special
	Skill
	Body parts
	Questions and answers
	Wow facts

Task 2.

Text	Section
<p>Bones, Bones, Bones.</p> <p>If you think bones are useful, then you'll be pleased to know you have lots of them! In fact, there are over 200 bones in the human body! Long ones, small ones, light ones and one that isn't connected to any other! Each of our hands contain 27 individual bones which we use to firmly grab, carefully pick and hold things up with such mastery that our skill is second to none. Applause!</p>	<p>Body parts</p>
<p>Human Facts</p> <p>Coupled with an increased intelligence, our adept ability at manipulating tools with our hands has enabled us to have an incredible influence over the world around us. Did you know Homo-sapien means 'wise-man'? However, some scientists believe that our physical abilities are no greater than any other animal on Earth and that what really makes us distinct and sets us apart from the rest of the animal kingdom is our ability to work together to be successful.</p>	
<p>The Homo-sapien!</p> <p>Over many years, scientists have questioned what sets humans apart from all other mammals and wondered where humans came from. What unique features do we have which make us human? We know that Homo-sapiens evolved in Africa around 150,000 years ago, but how have we adapted over time?</p>	
<p>Practise!</p> <p>Have you ever tried cutting an apple, scraping a carrot or moulding plasticine? Well, around 300,000 years ago, early humans were beginning to hone these skills shaping stone from flint. They would strike off flakes of flint and meticulously turn them into tools for specific purposes such as cutting, scraping piercing and carving.</p>	
<p>Clever enough to think and reason about the feelings of others. Cooperative enough to help others to reach a shared goal.</p>	
<p>Muscle Mates!</p> <p>In order to move parts of our skeleton we need our friend - muscles. Similarly, to other animals with an endoskeleton, we use the skeletal muscles attached to the</p>	

bones by tendons to help us move. So, the walking human moves a joint by contracting one muscle while the other muscle relaxes and becomes longer. Easy	
Task 2 continued	
<p>Endoskeleton: A skeleton the inside of the body.</p> <p>Homo-sapiens: The scientific name for the human species.</p> <p>Mammal: Animals that are warm-blooded with hair or fur.</p> <p>Tendon: A cord of tissue that attaches the end of a muscle to a bone.</p> <p>Vertebrates: An animal with a backbone. The major groups include fish, amphibians, reptiles, birds and mammals.</p>	
<p>Two Feet is Fab!</p> <p>Marking us out from almost all other animals is our ability to comfortably stand on two feet for extended periods of time. This ability came about through a series of changes to our skeleton, affecting our cranial base, spine, pelvis, femur, knees and feet. Like all mammals, humans are vertebrates and have an endoskeleton – a skeleton on the inside of the body. When we grow, our skeleton grows with us. The human skeleton is light, has strong weight bearing properties to stop us from becoming a jelly on the ground and protects our vital organs, such as our heart and lungs. Kerpow! Fascinatingly, the human backbone is made up of 33 interlocking bones called vertebra. That’s where the name vertebrate comes from – Backbone</p>	

Key:  Hook / Heading  Glossary  Intro  Special

 Skill  Body Parts  Questions & Answers  Wow Facts

Science/Topic Tuesday 9th February

Follow the recorded lesson here: [Stars and Constellations](#)

Pause and complete the following tasks as you are working your way through the lesson.

What are stars and star constellations?

Write down three facts about the sun:

- 1.
- 2.
- 3.

What pulls the clouds dust and gas together?

What do we call the process that is happening inside a star?

What do we call the star when it uses Helium and grows in size?

What is left behind of a star like our Sun?

Read the statements below and decide if they are true or false

- Telescopes helped us see stars in more detail - **true/false**
- Constellations are where animals and humans have gone into space - **true/false**
- Sometimes you need to use your imagination a bit to see constellations - **true/false**
- Stars that are closer to red in colour are hotter than stars that are more blue - **true/false**
- You can only get dwarf stars in one colour - **true/false**

Complete this storyboard to show the stages of the Sun's life

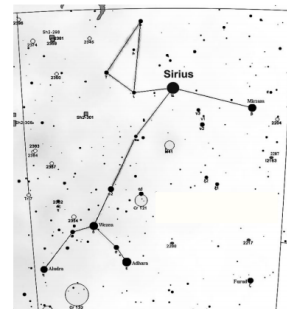
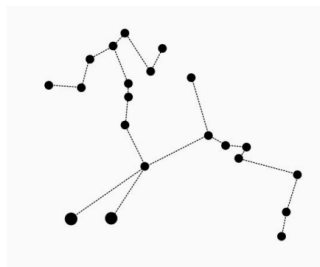
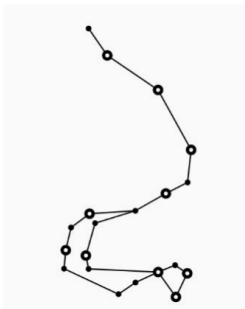
1) Dust and gas gather	2) Gravity pulls the dust and gas into a hot ball	3) It gets so hot that it ignites
4) The sun uses hydrogen as a fuel and shines white light	5) The star gets bigger and becomes a red giant	6) The star collapses and sends out its material to area around it

Read the descriptions of the constellations below and work out which constellation is shown in pictures A, B and C:

Centaurus – named after a mythical creature that was half horse and half human

Canis major – means 'big dog' – said to be a dog following a hunter

Draco – latin for 'dragon'. This constellation is a little like a snake.



Fast Maths 10.2.21

Ob – To multiply a 1-digit by 3-digit number (no carrying)

$$3 \times 123 =$$

$$2 \times 444 =$$

$$3 \times 323 =$$

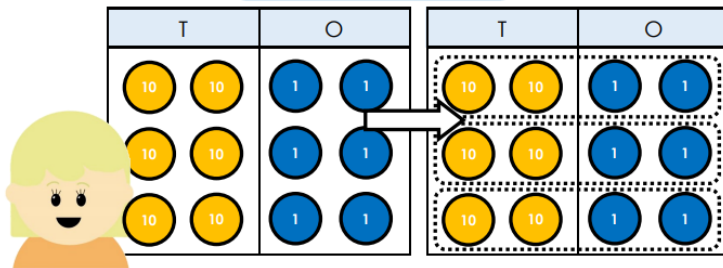
$$4 \times 221 =$$

$$4 \times 222 =$$

$$3 \times 223 =$$

EXAMPLE FLUENCY 1

$$66 \div 3 = 22$$



FLUENCY 1

Use place value counters to draw how these 2-digit numbers can be divided by 1-digit numbers in the same way as Jane's example.

$$52 \div 4 =$$

$$95 \div 5 =$$

$$96 \div 6 =$$

FLUENCY 2

Asha bakes 56 cakes for her friends.

She splits the cupcakes equally between her four friends.

How many cakes will each friend receive?



Use visual representations to show your answer.

FLUENCY 3

Ranjit is making crowns to sell at the Summer Fair.
He wants to make 98 crowns and has a week to do it.
How many crowns will Ranjit need to make per day?



Use visual representations to show your answer.

Fluency 4

Rosie has 56 pencils.

a) Draw base 10 to represent the pencils.

Rosie shares the 56 pencils equally between 4 pots.

b) Draw base 10 on a place value grid to share the pencils.

c) How many pencils are in each pot?

d) Did you have to make an exchange?

Fluency 5

Eva has this money.



She wants to share the money equally between 3 people.

a) Use a place value chart to show how Eva can share the money.

b) How much money does each person get?

REASONING 1

Anita says...



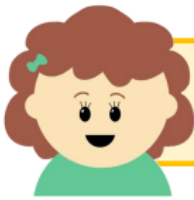
I don't always have to use a written method when dividing two-digit numbers.

$$36 \div 3 =$$

Explain what other methods Anita could use to complete this calculation.

REASONING 2

Use a visual representation to convince Darcey that her calculation will have no remainder.



$$48 \div 4 =$$

English Wednesday 10th February 2021

Video links







Skeletons <https://www.bbc.co.uk/bitesize/topics/z9339j6/articles/zqfdpbk>

Muscles <https://www.bbc.co.uk/bitesize/topics/z9339j6/articles/zpbxb82>







Vertebrates and invertebrates

<https://www.bbc.co.uk/bitesize/topics/zn22pv4/articles/zp6g7p3>

<https://www.bbc.co.uk/bitesize/topics/zn22pv4/articles/z8mbqhv>

Animal	Vertebrate or invertebrate	Animal	Vertebrate or invertebrate
			
			
			

Animal	Vertebrate or invertebrate	Animal	Vertebrate or invertebrate
			
			
			



Fast Maths - 11.2.21

Ob – To multiply a 1-digit by 3-digit number (carrying)

$$3 \times 324 =$$

$$3 \times 444 =$$

$$3 \times 324 =$$

$$4 \times 234 =$$

$$4 \times 444 =$$

$$3 \times 255 =$$

Maths Thursday 11.2.21

Fluency 1

Divide 72 by 3



Use the place value counters to help you.

$$72 \div 3$$

Fluency 2

Use base 10 or counters to work out the divisions.

a) $45 \div 3$

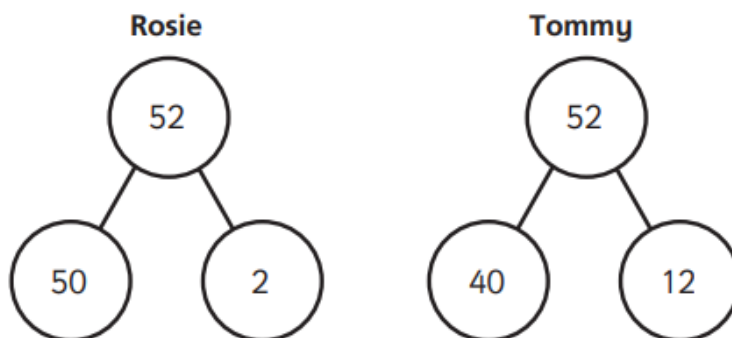
b) $57 \div 3$

c) $92 \div 4$

Fluency 3

Rosie and Tommy are working out $52 \div 4$

They both use a part-whole model.



a) Whose part-whole model will help them with the division?

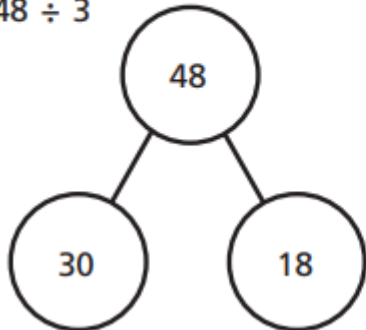
How do you know?

b) Use a part-whole model to work out $52 \div 4$

Fluency 4

Use the part-whole models to complete the divisions.

a) $48 \div 3$

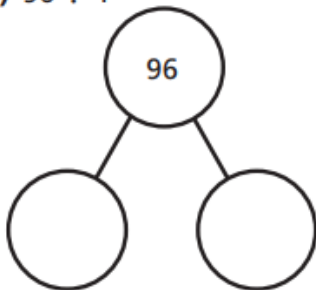


$$30 \div 3 = \square$$

$$18 \div 3 = \square$$

$$48 \div 3 = \square$$

b) $96 \div 4$



c) $65 \div 5$

d) $75 \div 3$

Fluency 5

Here are 3 divisions.

$$96 \div 8$$

$$96 \div 4$$

$$96 \div 2$$

a) What is the same about the questions? What is different?

b) Complete the divisions.

$$96 \div 8$$

$$96 \div 4$$

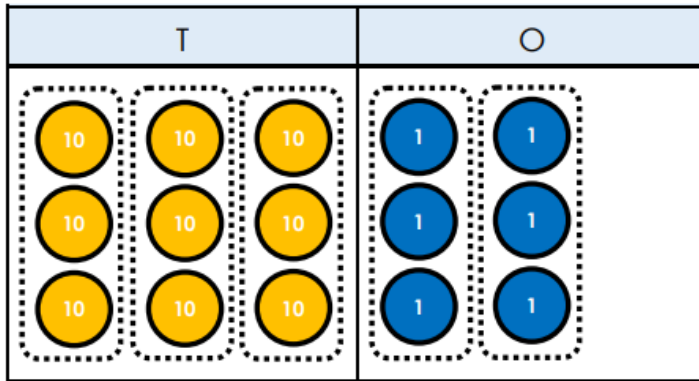
$$96 \div 2$$

c) What do you notice? Talk about it with a partner.

Application

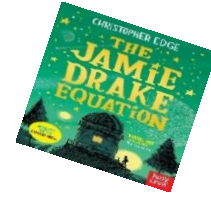
Alfie is dividing two-digit numbers by one-digit numbers.

$$96 \div 3 = ?$$



$$96 \div 3 = 5$$

Explain the error which Alfie has made and correct it.



Thursday 11th February 2021

NCO - Inference - Make inferences from the text/explain why and justify using evidence from the text.

· I can make inferences from the text/explain why and justify using evidence from the text.

Read page 55-57

Describe how is Jamie feeling. You need to write a paragraph (**at least 5 sentences**) to explain how he is feeling and use evidence from the text to support your answer

For example - I believe Jamie is annoyed because his Granddad has the TV on too loud. I know this because in the text it says 'I try to block the noise out.'

Challenge - Find and copy the phrase or sentence on page 57 that tells you Jamie is excited to find out what Lego set Dad has bought him for his birthday this year.

English - Thursday 11th February

Look at the text below.

Task1: Tell me at least 3 things you notice about the layout of the report. This could include parts such as heading, fact boxes, diagrams.

Task 2: Complete the table with examples of different types and use of language.

Task 3: Collect 5 facts about Pangolins from the videos.

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Cooperative enough to help others to reach a shared goal.**

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<https://www.youtube.com/watch?v=gz4HXyxcxss>

www.nationalgeographic.com • www.pangolins.org

Task 1	
1.	
2.	
3.	
4.	
5.	

Task 2

complex sentences using 'if', 'when' and 'as	Generalisers: sometimes, often, most, usually	Technical/subject specific vocabulary
Specific adjectives	Powerful verbs (precise)	Facts and statistics

Task 3 Facts about Pangolins

1.	
2.	
3.	
4.	
5.	

Music - Thursday 11th February

Song Writing

Task 1

Here is another **call and response** song called Kye Kye Kule.

This song is from West Africa.

https://www.youtube.com/watch?v=_tqGqFDL3sc



Listen first and then join in and sing the response.

Sing the song through a few times until you feel confident that you know it!

Task 2

Now listen to this version of the same song by some children in Switzerland.

<https://www.youtube.com/watch?v=d7RShxiWpQ0&feature=youtu.be>

How is their version of the song different to the first version?

Which version do you like best and why?

Task 3

The children in the video made up their own lyrics to the song Kye Kye Kule.

Have a go at writing some of your own lyrics.

Try to use the same rhythms as the original song.

Fast Maths 12.2.21

Ob - To recall division facts.

$$20 \div 5 =$$

$$20 \div 4 =$$

$$40 \div 5 =$$

$$40 \div 4 =$$

$$30 \div 5 =$$

$$30 \div 3 =$$

$$16 \div 4 =$$

$$30 \div 6 =$$

$$28 \div 7 =$$

$$36 \div 6 =$$

Fluency 1

I Mo has these lolly sticks.



He uses them to make squares.

How many squares can Mo make?

Complete the sentences.

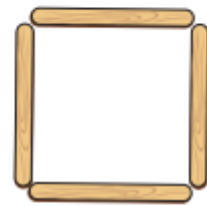
There are 17 lolly sticks.

There are groups of 4

There is lolly stick remaining.

$17 \div 4 =$ remainder

Mo can make squares.



Fluency 2

2 Mo now uses the lolly sticks to make triangles.

How many triangles can Mo make?

Complete the sentences.

There are 17 lolly sticks.

There are groups of 3

There are lolly sticks remaining.

$17 \div 3 =$ remainder

Mo can make triangles.



Fluency 3

3 Finally, Mo uses the lolly sticks to make pentagons.

How many pentagons can Mo make?

Complete the sentences.

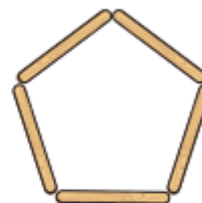
There are 17 lolly sticks.

There are groups of 5

There are lolly sticks remaining.

$17 \div 5 =$ remainder

Mo can make pentagons.



Fluency 4

4 Use repeated subtraction to complete the divisions.

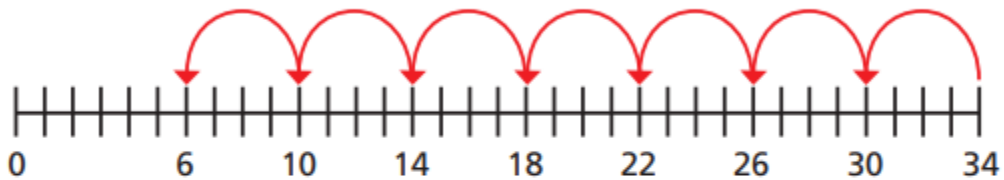
Use number lines to help you.

a) $23 \div 4 = \square$ remainder \square c) $23 \div 3 = \square$ remainder \square

b) $23 \div 5 = \square$ remainder \square

Fluency 5

5 Eva works out $34 \div 4$



There is a remainder of 6



Is Eva correct?

How do you know?

Fluency 6

6 Complete the calculations.

a) $29 \div \square = 4$ remainder 5

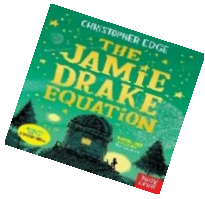
c) $29 \div \square = 14$ remainder 1

b) $29 \div \square = 4$ remainder 1

Application

- 7 How do you know there is no remainder when 75 is divided by 5?

Without doing the division, what is the remainder when 76 is divided by 5?



Friday 12th February 2021

NCO - ask relevant questions to improve my understanding of the text.

· I can ask relevant questions to improve my understanding of the text.

Read pages 58-60

Based on what you read during chapter 7, write 3 questions in your book for each of the following characters:

- Mum
- Jamie

For example: Jamie = Why didn't you tell your Mum about the app before clicking on it?

Challenge - Choose one of your questions and explain why you have chosen to ask this.

Further challenge - Would you have clicked on the app? Why?

English Friday 12.2.21



Think of some adjectives to describe Black Panther's suit.

- tough
- strong
-
-

Collect similes to describe soil as hard as concrete.



- as hard as stone
- as hard as steel
-
-

Positive adjectives



- Quick enough to scoop soil like a digger.
- Invincible to the clutch of a lions claw.
-
-

Create a title using alliteration.



- Super suited Pangolin
- World's weirdest
-
-

Strong enough to excavate soil as hard as concrete

Tough enough to defy a lion's ferocious snack attack

The Powerful Pangolin!

Friday 12th February

PSHE – Jigsaw

Invitation to the

Funniest Potato

Person Competition!

Jigsaw Task - Make your very own
Potato Person!!



Don't forget to give your Potato Person a name, tell us what their job is and what they like to do in their spare time.

For example - He is called Spud. He works in the chip factory making chips. When he is not at work he likes to bake and cook.

PE challenge

If you have access to a football and to some open space, open the link and practice the skills on the video.

<https://www.youtube.com/watch?v=nW1LWjhXAro&feature=youtu.be>

Repeat the activities until you grow in confidence.

Why not record your results over a minute and then try to beat your best score!

Challenge 1 – Ball Dribble

Attempt	Laps in a minute
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

My best score was _____

Challenge 2 – Ball Wall

Attempt	Wall kicks in a minute
1	
2	
3	
4	
5	
6	
7	
8	
9	

10	
----	--

My best score was _____

Challenge 3 – Cone Circuit

Attempt	Number of laps in a minute
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

My best score was _____