

# Year 4 Learning Grid

## Week Commencing 11<sup>th</sup> January 2021

	Fast Maths	Guided Reading	Maths	English	Topic
Monday	6 x table	World Space Week comprehension	6 times-table and division facts	Experience Day 1	Research and present Mercury. This can include drawing the planet using any media you have, presenting the information perhaps as a poster (template below) or PowerPoint
Tuesday	9 x table	Inferring a character's feelings	Multiply and divide by 9	Experience Day 2	Research and present Venus. Continue with the instructions from Monday but for this planet.
Wednesday	9 x table and division	Jamie Drake reading comprehension	9 times-table and division facts	Sentence Stacking 1	Research and present Earth. Continue with the instructions from Monday but for this planet.
Thursday	7 x table	Jamie Drake Equation True/False	Multiply and divide by 7	Sentence Stacking 2	PE Music from Miss Siddle
Friday	7 x table and division	Jamie Drake Equation True/False	7 times-table and division facts	Sentence Stacking 3	Jigsaw

Fast Maths Monday 11.1.21

11.1.21

Ob - To multiply by 6

$2 \times 6 =$

$4 \times 6 =$

$1 \times 6 =$

$0 \times 6 =$

$3 \times 6 =$

$5 \times 6 =$

$8 \times 6 =$

$10 \times 6 =$

$7 \times 6 =$

$9 \times 6 =$

$12 \times 6 =$

$11 \times 6 =$

$6 \times 6 =$

# World Space Week



World Space Week is the largest space event on Earth. Every year, between 4<sup>th</sup> and 10<sup>th</sup> October, over 80 countries celebrate space science and technology and the contributions that it has made to life. This year is the 20<sup>th</sup> celebration of World Space Week and the theme is 'The Moon: Gateway to the Stars'. The theme focuses on the moon because this year is the 50<sup>th</sup> anniversary of the first moon landings which occurred back in 1969.

## Facts about the moon

The Moon does not make its own light. Instead, it reflects the light of the Sun.

The Moon does not disappear in daytime - it is just harder to see because the Sun is so bright.

The Moon goes around (orbits) the Earth. This takes 28 days and is known as a lunar month.

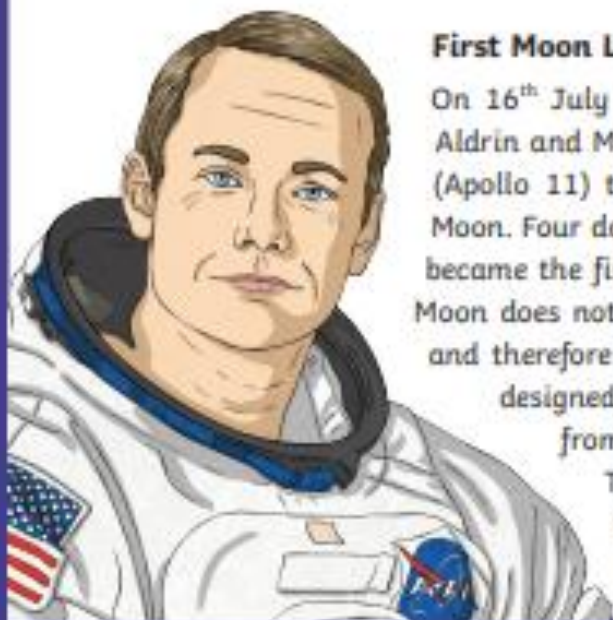
We see different parts of the Moon depending on where it is in its orbit. This is called the 'phases of the Moon'. There are eight phases in total.

The average temperature of the Moon is 107°C in the day and -153°C at night.

The Moon affects the waves in the oceans on Earth.

## First Moon Landing

On 16<sup>th</sup> July 1969, Neil Armstrong, Edwin 'Buzz' Aldrin and Michael Collins set off on their mission (Apollo 11) to be the first people to land on the Moon. Four days later, on 20<sup>th</sup> July, Neil Armstrong became the first man to set foot on the Moon. The Moon does not have an atmosphere like Earth does and therefore he and Aldrin had to wear specially designed suits (called EMUs) to protect them from the Moon's demanding conditions. They carried tanks containing oxygen so that they could breathe outside of the spacecraft.



## World Space Week

Neil Armstrong and Buzz Aldrin spent three hours walking on the Moon, carrying out experiments and collecting pieces of moon dust, rock and soil to take back to Earth. Before they left, they planted an American flag into the ground to mark the fact that the USA were the first country to travel to the Moon. They returned safely back to Earth on 24<sup>th</sup> July as heroes.

As he stepped on the Moon, Neil Armstrong famously said, 'That's one small step for man, one giant leap for mankind.'

### Did You Know...?

Around 600 million television viewers around the world tuned in to watch the Moon landing.



1. When is World Space Week celebrated?

2. Explain in your own words why this year's World Space Week theme is so special.

3. How long is a lunar month?

Underline one.

28 weeks

28 days

28 hours

28 years

4. What is the average temperature on the Moon in the daytime?

Underline one.

-153°C

170°C

107°C

153°C

5. What is an EMU?

Underline one.

a spacecraft

a planet

an astronaut's suit

Moon rock

6. Explain why Armstrong and Aldrin planted a flag on the Moon before returning to Earth.

Fluency 1

Write the multiplication fact to work out how many there are in total.

a)



$$\square \times \square = \square$$

b)



$$\square \times \square = \square$$

Fluency 2

Complete the number tracks.

30	36				60	66	
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36	30	24				
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Fluency 3

a)  $3 \times 6 = \square$

g)  $6 \times 6 = \square$

b)  $2 \times \square = 12$

h)  $\square \div 6 = 7$

c)  $6 \times 4 = \square$

i)  $6 \times \square = 48$

d)  $\square \div 6 = 1$

j)  $\square \div 6 = 11$

e)  $11 \times 6 = \square$

k)  $10 \times 6 = \square$

f)  $\square \times 6 = 30$

l)  $\square \times 3 = 30$

Application 1

Complete the Carroll diagram.

Sort the number cards into the diagram.

- 18 15 36 16 20 6 72 63

	Multiples of 6	Not multiples of 6
Even numbers		
Odd numbers		

Are there any boxes empty? Explain why.

Application 2

**Always, Sometimes or Never?**

**Asha says...**



The 6 times table is always one more than the 5 times table because 6 is one more than 5.

**Do you agree with Asha?**

**Use facts from the 5 and 6 times table to prove your answer.**

Application 3

**Top Tip!**

*If you know your 3 times table, it makes the 6 times table much easier to learn.*

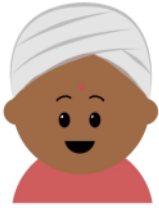
**Explain why this tip works.**



## Challenge

Ranjit is exploring the 6 times tables.

6		18	24		36	42			60		
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*I think I have found some patterns in the 6 times table.*

What do you notice about the digits of the numbers in the 6x table?  
Can you use what you have noticed to help you decide whether the following numbers are multiples of 6?

321

456

1,399

9,780

2,462

2,562

## English Monday 11.1.21

Today is an experience day so we would like you to conduct some research which will help you with further work in this unit.

Today I want you to imagine that you are flying to Italy, and whilst there you will gain knowledge about these key areas;

- : • Geographical overview
- Weather & zoom in (environment)
- Relaxing & eating on holiday
- Sightseeing & history
- Outdoor adventurous activities

Watch the YouTube video 'Best things to do in Sicily', which will give you a guided tour.

[https://www.youtube.com/watch?v=Q\\_19Z1ntxLY](https://www.youtube.com/watch?v=Q_19Z1ntxLY)

- Your job today is to collect a range of facts about Sicily

I have given you some examples of facts that I have collated below.

eg: • Triangle-shaped island at the toe of Italy's boot.

- The largest Mediterranean island.
- Home to the highest active volcano in Europe - Mount Etna.
- Home of the orange tree.
- Largest opera house in the world.
- Elected the European Capital of Street Food.

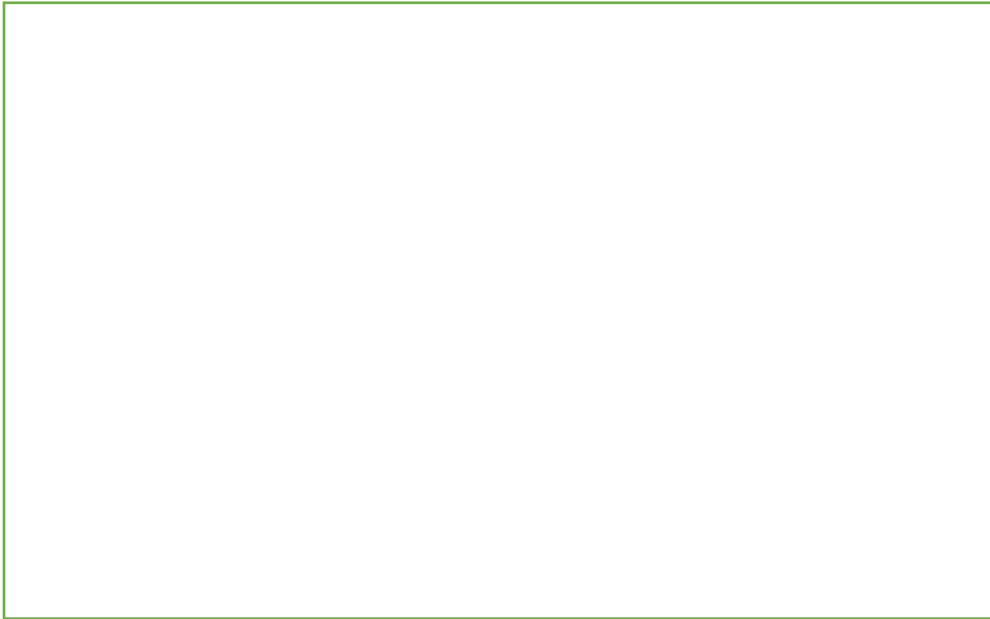
Try to find out and present as many interesting facts as you can. You can present your findings however you like. You may want to use the template below or you may want to produce a brainstorm or a poster!



Topic Monday 11.1.21

Conduct some research about the planet Mercury. Use the box to create a detailed picture and then record some interesting facts about this planet. You may use bullet points or you can record your information in paragraphs.

# Mercury



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12.1.21

Ob - To multiply by 9

$2 \times 9 =$

$4 \times 9 =$

$1 \times 9 =$

$0 \times 9 =$

$3 \times 9 =$

$5 \times 9 =$

$8 \times 9 =$

$10 \times 9 =$

$7 \times 9 =$

$9 \times 9 =$

$12 \times 9 =$

$11 \times 9 =$

$6 \times 9 =$

Guided Reading Tuesday 12.1.21

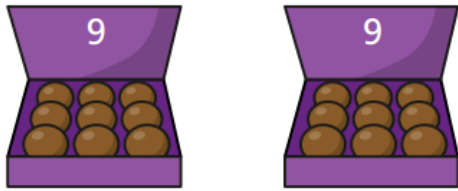
[https://issuu.com/nosycrow/docs/thejamiedrakeequation\\_prelims\\_hi-re/8](https://issuu.com/nosycrow/docs/thejamiedrakeequation_prelims_hi-re/8)

Read pages 5 - 8.

1. How does Jamie feel about his seat partner?
2. **Why do you think** Jamie and Minty were placed together?

**Challenge** - Find and copy a phrase or sentence that describes how Jamie feels when he sees a picture of his dad on the whiteboard (page 8).

Fluency 1



There are  boxes.

There are  chocolates in each box.

There are  chocolates altogether.

$$2 \times 9 = \text{}$$

Fluency 2

There are 9 players in a baseball team.

**a)** How many players are there in 7 baseball teams?

There are  players in 7 baseball teams.

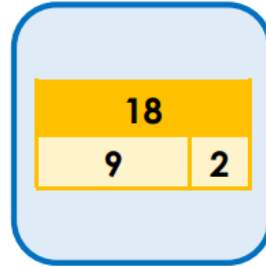
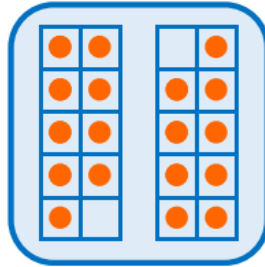
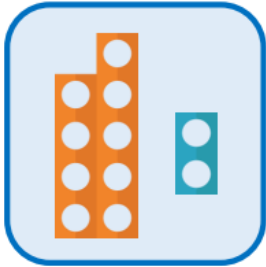
**b)** If there are 81 players, how many full teams are there?

There are  full teams.

Fluency 3

Which picture represents the number sentence?

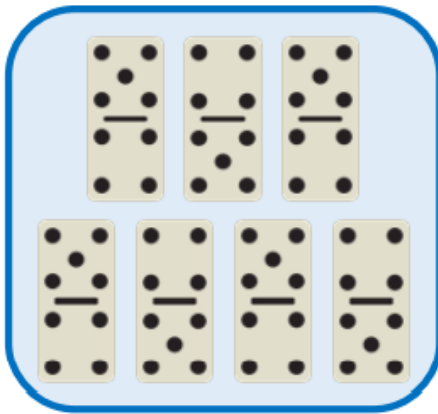
$$9 \times 2$$



Explain how you know.

Application 1

Which is the odd one out? Convince me.



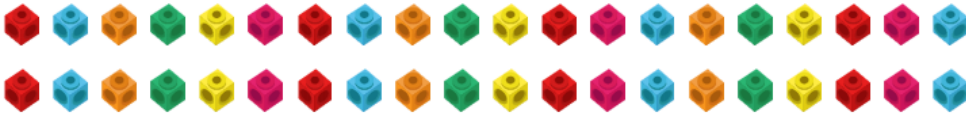
$$6 \times 9$$

$$54 \div 9$$

$$9 \times 6$$

Application 2

Jerry has 40 multi-link cubes.



I have enough cubes to represent  $9 \times 5$ .

Do you agree with Jerry? Explain why.

Application 3

Caleb and Millie are dividing numbers by 9.

Caleb



Any number which divides by 9 always divides by 3.

Any number which divides by 3 always divides by 9.



Millie

Who is correct? Prove it.



Challenge

Here is a number puzzle.

$$\square \times \square \times \triangle = 81$$

Find three different values of the square and triangle.

$\triangle = \square$

$\triangle = \square$

$\triangle = \square$

$\square = \square$

$\square = \square$

$\square = \square$

English Tuesday 12.1.21

Ob - To plan a guided tour of Sicily

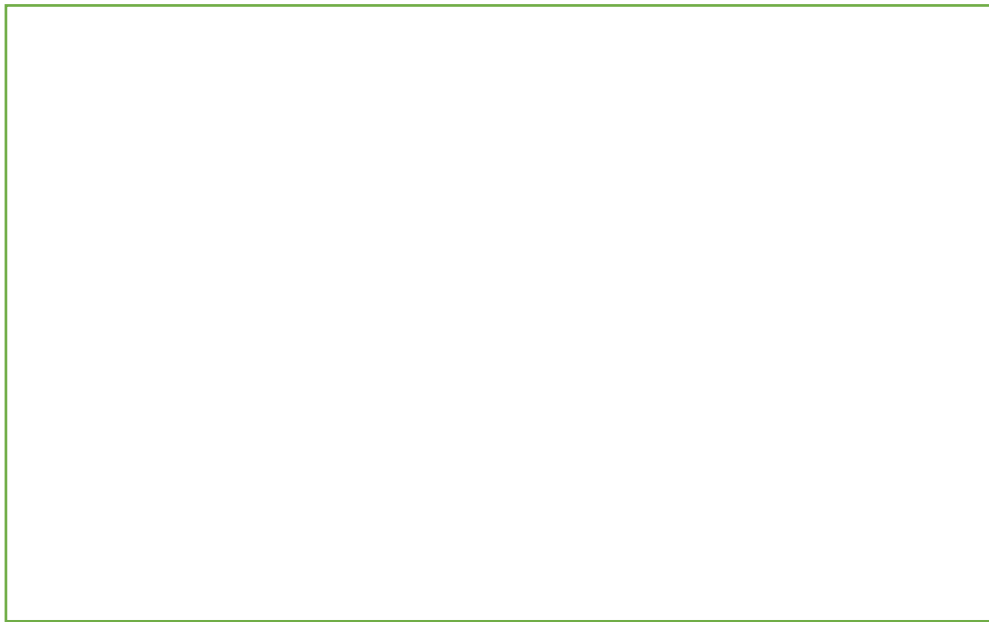
Today you are going to use the interesting facts that you found about Sicily. Your task is to organize the facts into the correct categories below! You may also want to include some small pictures to make your boxes more attractive!

<u>Geographical overview</u>	<u>Weather</u>
<u>Relaxing and eating</u>	<u>Sightseeing and history</u>
<u>Outdoor and adventurous activities</u>	<u>Any other information</u>

Topic Tuesday 12.1.21

Conduct some research about the planet Venus. Use the box to create a detailed picture and then record some interesting facts about this planet. You may use bullet points or you can record your information in paragraphs.

# Venus



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Fast Maths Wednesday 13.1.21

13.1.21

Ob - To multiply and divide by 9

$2 \times 9 =$

$18 \div 9 =$

$4 \times 9 =$

$36 \div 9 =$

$5 \times 9 =$

$45 \div 9 =$

$10 \times 9 =$

$90 \div 9 =$

$3 \times 9 =$

$27 \div 9 =$

$8 \times 9 =$

$72 \div 9 =$

$6 \times 9 =$

$54 \div 9 =$

Guided Reading Wednesday 13.1.21

Use the link below to access the class text. Type in your answers under each question.

[https://issuu.com/nosycrow/docs/thejamiedrakeequation\\_prelims\\_hi-re/8](https://issuu.com/nosycrow/docs/thejamiedrakeequation_prelims_hi-re/8)

Read pages 13 - 15

1. Which word tells you Minty looked confused on page 13?
2. Which word/words tells us how Jamie felt after thinking about Aliens eating human flesh? page 13
3. Why did 'Minty pull a face'? page 13 and 14
4. How did everyone feel when Mrs Solomon told the class it was time to revise for their maths test? Use evidence from the text to justify your answer. Page 14
5. What does the word 'nosedive' mean on page 15?

Fluency 1

a)  $3 \times 9 = \square$

g)  $6 \times 9 = \square$

b)  $\square \div 9 = 12$

h)  $9 \times \square = 18$

c)  $9 \times 4 = \square$

i)  $9 \times \square = 72$

d)  $\square \div 9 = 1$

j)  $\square \div 9 = 11$

e)  $11 \times 9 = \square$

k)  $\square \times 9 = 45$

f)  $10 \times 9 = \square$

l)  $20 \times 9 = \square$

Fluency 2

Complete the fact families to match each image.



$9 + 9 + 9 + 9 + 9 + 9 + 9$



$\square \times 9 = \square$

$9 \times \square = \square$

$\square \div 9 = \square$

$\square \div \square = 9$

Fluency 3

Use the 9 times table to help you fill in the missing numbers.

$$8 \times 9 = \square$$

$$\square \times 9 = 99$$

$$8 \times 90 = \square$$

$$\square \times 9 = 990$$

$$8 \times 900 = \square$$

$$\square \times 9 = 9,900$$

Application 1

Always, Sometimes or Never?



Numbers in the 9 times table are always odd because 9 is an odd number.

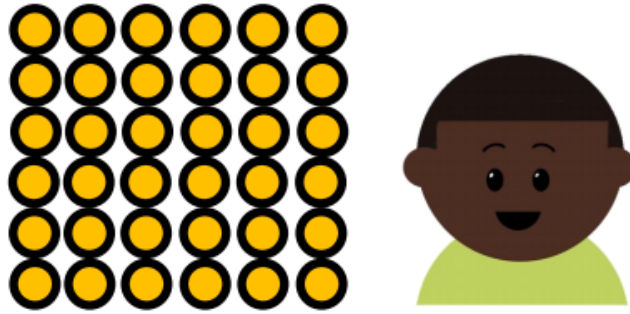
Prove it!

Application 2

Caleb has represented this calculation as an array.

Explain the mistake he has made.

$$9 \times 6 = 36$$



Application 3

Marlon has been looking at patterns in the 9x table...



I have found a pattern: the tens go up and the ones go up as you say the 9 times table.

What error has Marlon made?

Describe the correct pattern.

Challenge



Millie is thinking of a number and gives some clues.

The number is odd.

The number is greater than 100  
and less than 200.

The number is a multiple of 9.

What could the number be?

How many possibilities can you find?



English Wednesday 13.1.21

Ob - To write effective sentences for a holiday brochure.

Steps to success: Alliteration, adjectives and verbs, Conjunction 'or'.

Task 1

Create some alliterative adjectives to describe Sicily.

For example - Sensational Sicily, Scintillating Sicily

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- 
- 
- 
- 
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Task 2

Look at the photograph of the Sicilian beach below. Create a bank of adjectives to describe the beach. I have started you off with a couple!

Calm

tranquil

beautiful



## Task 2.2

Now collect some verbs/verb phrases for relaxation. Use the table below to insert your word choices. I have again added some examples of my own to help you.

unwind	put your feet up	de-stress
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## Task 3

We are going to continue to exercise our use of adjectives. I would now like you to create a bank of adjectives to describe the air and the landscape!

### The air

- Crisp
- Wild
- Breezy
- 
- 
- 
- 

### The landscape

- Rocky
- Fertile
- Sandy
- 
- 
- 
- 

## Task 4

I will now use the words that I have generated to write a very brief introduction that you may be likely to see in the opening of a holiday brochure for Sicily.

Scintillating Sicily. Whether you're looking to unwind on a golden beach or fill your lungs with fresh mountain air in a wild volcanic landscape, then Sicily is for you!

Use my example above and the words that you have generated yourself to create a high quality opening sentence to your holiday brochure. The underlined parts are my suggestions for the parts that you could change.

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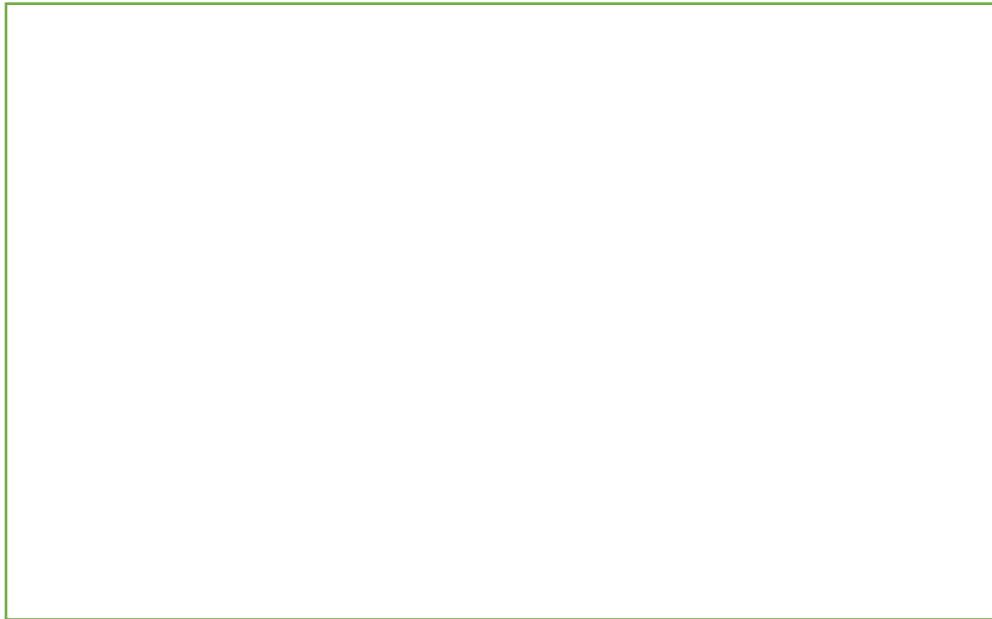
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Topic Wednesday 13.1.21

Conduct some research about the planet Earth. Use the box to create a detailed picture and then record some interesting facts about this planet. You may use bullet points or you can record your information in paragraphs.

# Earth



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14.1.21

Ob - To multiply by 7

$2 \times 3 =$

$4 \times 7 =$

$1 \times 7 =$

$0 \times 7 =$

$3 \times 7 =$

$5 \times 7 =$

$8 \times 7 =$

$10 \times 7 =$

$7 \times 7 =$

$9 \times 7 =$

$12 \times 7 =$

$11 \times 7 =$

$6 \times 7 =$

Guided Reading Thursday 14.1.21

Use the link below to access the class text. Type in your answers under each question.

[https://issuu.com/nosycrow/docs/thejamiedrakeequation\\_prelims\\_hi-re/8](https://issuu.com/nosycrow/docs/thejamiedrakeequation_prelims_hi-re/8)

True/False?

Jamie felt embarrassed when Grandad was yelling to him to come to the van quickly.

The lollipop lady was happy with Grandad's parking.

Jamie jumped into the van feeling very happy.

When everyone started laughing Jamie ducked down in the van seat because he wanted to hide.

Jamie didn't want any of his friends to get a lift in the van because he was ashamed.

Challenge - How would you feel if your Grandad was like Jamie's? Write a sentence or two and use because to say why.

Fluency 1

Complete the fact family.



$$\_\_\_ \times 7 = \_\_\_$$

$$7 \times \_\_\_ = \_\_\_$$

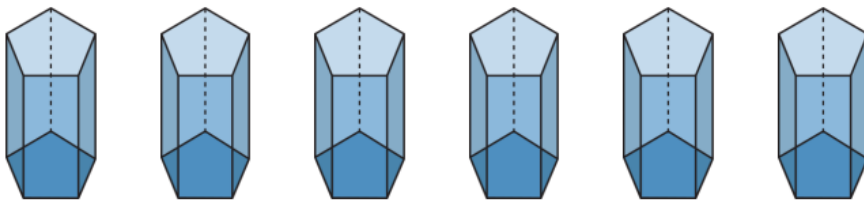
$$\_\_\_ \div 7 = \_\_\_$$

$$\_\_\_ \div \_\_\_ = 7$$

Fluency 2

A pentagonal prism has seven faces.

How many faces do six pentagonal prisms have?



Write a number sentence to show your calculation.

Fluency 3

How many groups of seven fish can you make?



Write a number sentence to show your calculation.

Application 1

Lollipops cost 7p each.



I have 50p so I can buy eight lollipops.

Is he correct? Convince me.

Application 2

**True or False?**

All of the cards belong to the same fact family.

$$2 \times 7$$

$$14 \div 7$$

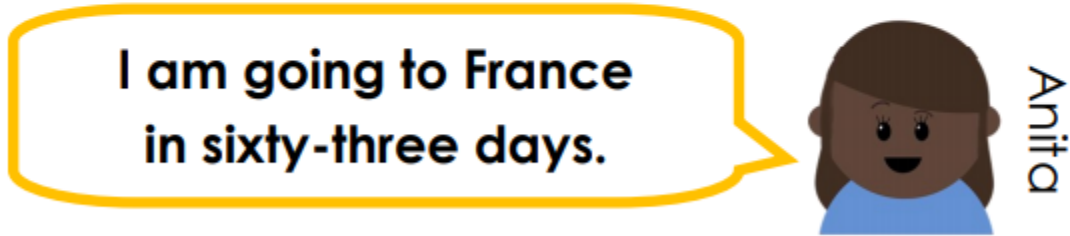
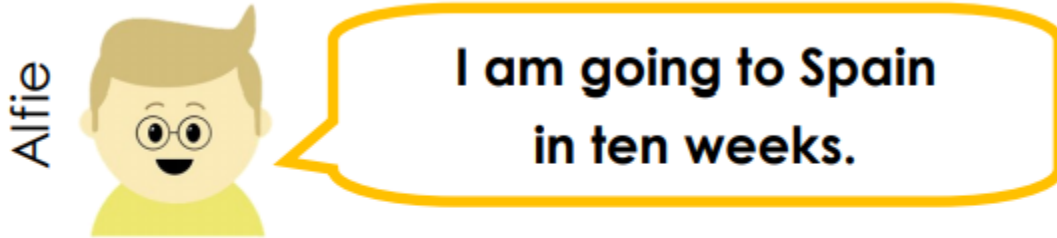
$$7 \div 2$$

$$7 \times 2$$

Explain your reasoning.

Application 3

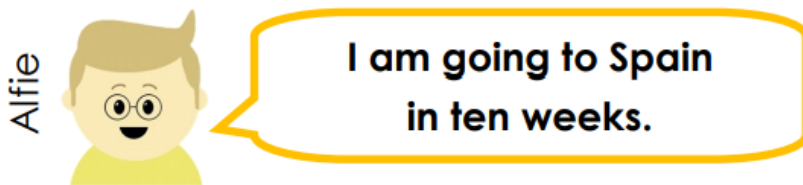
**Alfie and Anita are discussing their holidays.**



**Who is going on holiday first? Prove it.**

Application 3

**Alfie and Anita are discussing their holidays.**

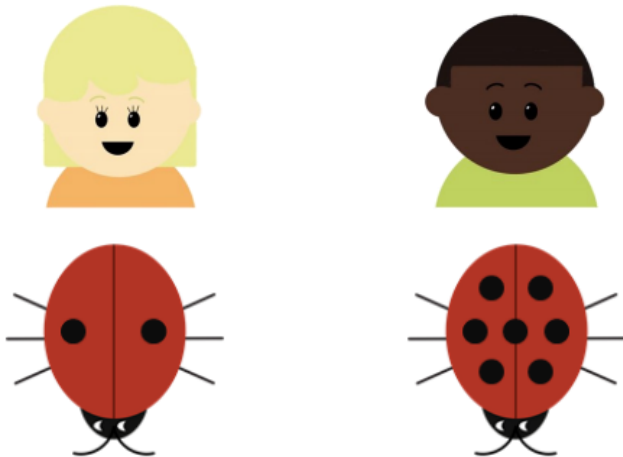


**Who is going on holiday first? Prove it.**



Challenge

During Forest School, Jane found some ladybirds with two spots and Caleb found some with seven spots.



They counted 80 spots altogether.

How many ladybirds could Jane and Caleb have found each?

Is there more than one possible answer?

Describe the pattern that you see.

English Thursday 14.1.21

Ob - To write effective sentences for a holiday brochure.

Steps to success: Evocative language, Question, Chatty reply.

Task 1

Look at the table of facts that I have provided below about Sicily's geography.

Hilly terrain	Citrus groves	Active volcanos
Rivers and sandy beaches	Open landscapes	Mountain ranges

Choose two of the facts above and enhance them with ambitious, evocative adjectives.

For example, you could change 'sandy beaches' to 'enchanted, sun-scorched beaches'

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Task 2

Teacher model:

**Sicily has been voted the World's Favourite Holiday Island** - thanks to its divine landscapes and enchanting beaches.

Use your written work above to create an opening statement which stresses why Sicily has been voted the best holiday island. You may begin by copying the red text in the example above.

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### Task 3

List as many question openers as you can think of. Use the box below. As usual, I have included some of my examples to help you.

Have you
Would you
Will you

Now use the question openers that you have thought of above to ask the reader of the holiday brochure some rhetorical questions.

For example; Have you ever dreamed of picnicking beneath the orange trees of a shady citrus grove?

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### Task 4

Discuss informal (chatty) ways of inviting people to visit Sicily.

*come on over; come see for yourself; pack your bags.*

Generate some of your own ways using the lines below and the suggestions above as a guide to help you.

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### Task 5

I would now like you to generate a bank of synonyms for the word 'interesting'

Remember, a synonym is a different word which has a similar meaning. You may want to use a thesaurus to help you!

enthraling

Intriguing

captivating

### Task 6

Well, what's stopping you? Then fascinating Sicily is the destination for you!

Use your own ideas to change my example above.

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PE Thursday 14.1.21

Take part in a Joe Wicks session or find an exercise video on YouTube to join in with.

Music Thursday 14.1.21

### **Task 1:**

Listen to Firework by Katy Perry:

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

### **Task 2:**

Complete the questions on this worksheet:

1. What genre do you think the style of the song is?
2. The song starts with the famous question 'Do you ever feel like a plastic bag?' Look at the lyrics of Verse 1. What do you think the verse is actually asking you?
3. The mood changes throughout the song. Take a look at the lyrics of the verse, prechorus and chorus. Think of what they are saying in each section. How does the music match the mood in each section?
4. The song is called Firework. Listen to the pre-chorus (You just gotta ignite...). How does the music and instrumentation build up the suspense, leading into the chorus? How could this be similar to watching a firework?
5. The musical term texture describes the layers in music. Listen to the instruments in this song. Do any of them feature as a solo line or do they mostly play together?
6. Firework has featured in the soundtrack of a number of films and television programmes. Why do you think it is often chosen?

### **Task 3:**

Watch this video and learn the song!

<https://youtu.be/2dE7cyCEHaU>

### **Task 4:**

Watch the Albemarle Broadband perform the song - see if you can spot Miss Siddle! Enjoy!

<https://youtu.be/gEo1F6NIrHI>

Fast Maths Friday 15.1.21

15.1.21

Ob - To multiply and divide by 7

$2 \times 7 =$

$14 \div 7 =$

$4 \times 7 =$

$28 \div 7 =$

$5 \times 7 =$

$35 \div 7 =$

$10 \times 7 =$

$70 \div 7 =$

$3 \times 7 =$

$21 \div 7 =$

$8 \times 7 =$

$56 \div 7 =$

$6 \times 7 =$

$42 \div 7 =$

Guided Reading Friday 15.1.21

[https://issuu.com/nosycrow/docs/thejamiedrakeequation\\_prelims\\_hi-re/8](https://issuu.com/nosycrow/docs/thejamiedrakeequation_prelims_hi-re/8)

Read pages 16 -19

	True	False
Jamie felt embarrassed when Grandad was yelling to him to come to the van quickly.		
The lollipop lady was happy with Grandad's parking.		
Jamie jumped into the van feeling very happy.		
When everyone started laughing Jamie ducked down in the van seat because he wanted to hide.		
Jamie didn't want any of his friends to get a lift in the van because he was ashamed.		

**Challenge** - How would you feel if your Grandad was like Jamie's?

Write a sentence or two and use because to say why.

Fluency 1

a)  $3 \times 7 =$

b)  $6 \times 7 =$

c)  $7 \times 10 =$

d)  $7 \times$    $= 63$

e)   $= 7 \times 11$

f)  $7 \times$    $= 35$

Fluency 2

$3 \times 7 =$ <input type="text"/>	<input type="text"/> $\times 7 = 42$
$30 \times 7 =$ <input type="text"/>	<input type="text"/> $\times 7 = 420$
$300 \times 7 =$ <input type="text"/>	<input type="text"/> $\times 7 = 4,200$

Fluency 3

a)  $4 \times 70 =$

$4 \times 700 =$

b)  $6 \times 30 =$

$300 \times 6 =$

c)  $5 \times 90 =$

$9 \times 500 =$

Application 1

Marlon says...



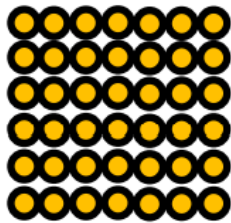
4 x 7 is the same as double 7 x 2.

Do you agree with Marlon?

Explain your reasoning.

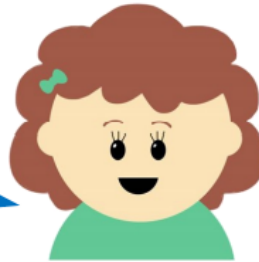
Application 2

Darcey has represented this calculation as an array.



$$6 \times 7 = 42$$

To work out  $6 \times 70$  I just need to add 10 more counters.



Explain her mistake and correct it.



### Application 3

Which of these calculations has a mistake? Explain how you know.

$$40 \times 7 = 280$$

$$600 \times 7 = 4,200$$

$$6 \times 700 = 420$$

$$5 \times 70 = 350$$

### Challenge

**Millie has some objects that she would like to build models of.**

**She has decided to scale the sizes down by dividing each of the heights and lengths by 7.**

Object	Original length (cm)	Scaled down length ( $\div 7$ )	Original height (cm)	Scaled down height ( $\div 7$ )
Table	210cm	3cm	70cm	7cm
Sports car		40cm	140cm	
Oven	56cm		91cm	13cm
Shed	350cm	50cm	420cm	70cm
Sofa	280cm			20cm
Chair	63cm	9cm	84cm	

**Find any errors she has made and fill in any gaps she has left.**



English Friday 15.1.21

Ob - To write effective sentences for a holiday brochure.

Steps to success: Simile, Metaphor, Personification and dialogue.

Use the heading : Feel the Heat!

Teacher model: *With temperatures regularly soaring to around 34°C, the Sicilian sun glows as yellow as the island's vibrant lemon orchards.*

Task 1

Re-write the above modelled sentence but use a simile of your own to describe the temperature.

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Task 2

Consider metaphors for the sky (based on delicate/summery coverings/fabrics)

Examples - *cotton sheet, linen voile, delicate shawl, silk scarf, elegant pashmina, chiffon drape, gossamer ribbon.*

Teacher model:

*The cobalt skies are a never-ending silk scarf, gently framing the spectacular settings.*

Re-write the above modelled sentence but use a metaphor of your own to describe the sky.

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Task 3

Personification is where a human quality is given to something non-human.

For example; *you'll find the warm weather whispering, "Take it easy and drift away".*

Look at the above sentence carefully. The weather does not actually whisper.

Teacher model:

Wherever you choose to stay on Sicily, you'll find the warm weather whispering, "Take it easy and drift away".

Re-write the above modelled sentence but use a metaphor of your own. For a further challenge, if your metaphor is about sound, try to include some correctly punctuated dialogue like I have in the example above.

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Jigsaw 15.1.21

Write 3 pieces of advice you would give someone whose dreams and goals were not successful.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_