

## Year 5 Learning at Home Week 2, Session 4

### Maths

In the Autumn term, we learnt about multiplication and division. Use your knowledge to answer the problems below and help Paulo!

#### Black Rock Island



Dazed and confused, Paulo opened his eyes wide and shook his head. The storm had been intense and his ship was wrecked.

He had walked for miles into the thick forest, hoping to find help, before falling into an exhausted and deep sleep. He awoke now and sensed immediate danger. Quickly, he got up and looked around the dense forest.

How would he know which way to go?

He remembered the scroll of paper his Uncle Deadeye had given him before he left home. He told him it might save his life. He quickly unfolded the paper.

*Look around and be aware  
for clues and riddles are  
everywhere!*

He searched all around and realised there was a plan of the forest pinned to a tree. It had a riddle on it. But danger was close by – he must work quickly.

1. If you want to escape from Black Rock, you must solve all our puzzles.  
The X shows your position. But time is ticking; we are coming!

##### Puzzle 1

Only circle the prime numbers which end in a 3, 7 or 9.

Follow the correct path and you survive. You may only move horizontally or vertically.

			83	39	57	17	67	53	47	
			33			73				
					69	43	61	29	27	
				97	13	29			79	11
			33	59		63				
	51	45	X	37	81					
			21		9	83				
			49			99	91	35		



Paulo reached the edge of the forest and ran. He knew danger was closing in. Suddenly, an arrow flew past his head and he dived into a cave for safety. Pressing his back against the wall, he held his breath – his heart thudding, but before he knew it, the huge rock at the doorway rolled across and his exit was blocked. Trapped... or was he? He remembered Uncle Deadeye's note. He looked all around and by the cave door spotted some rocks with numbers carved in them. A code!



### Puzzle 2

The code is made up of two 3-digit numbers.  
When I multiply the numbers by 100, the ten-thousands in the first number and the thousands digits in the second number are the same.

The sum of the digits is 5.

Which two numbers could they be? Numbers can be re-used.

Press the correct number rocks and the door will open.

2. Which cave number rocks should he press?

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Got it! The rock rolled away and Paulo was free. Tentatively, he stepped from the cave. Silence. His steps turned from walking, to jogging, to sprinting. Still he knew danger was just around the corner.

Up ahead, he saw a pyramid. The searing heat was intense, so he stepped inside for shade. The walls were enormous and Paulo, mesmerized, wandered deeper into the cave, but before he knew it he was lost!

3. A maze - and now he couldn't find the way back out. He searched around for the puzzle. The walls appeared to have numbers carved into them but which numbers should he follow?

### Puzzle 3

Find the missing factor pairs.  
Follow those numbers  
through the maze to escape  
through the dashed, green  
exit on the bottom row.

You are positioned at X.

1	48
2	
6	

15	X	18	20
9	48	1	16
35	4	3	12
45	1	16	8
7	42	24	6

The heat hit him again as he exited the maze, but he was surrounded. The tribe had found him! What next? Was it the end for Paulo? The tribe marched him to their chief.

4. The chief had one last riddle for him.



Find the ages of my family members and I will let you go.  
Here are my clues.  
Write their ages in the sand.

#### Puzzle 4

Brother - has an age that is a squared number.  
It is an odd number below 30 but above 10.

Mother - has an age that is a cubed number.  
It is an even number over 60 but below 90.

Two daughters – one has an age that is a cubed number. She is half her sister's age, which is a squared number. They are both between 5 and 20.

Brother's age:

Mother's age:

Daughter 1's age:

Daughter 2's age:

The chief was impressed by Paulo's mathematical skills. He could tell Paulo was no threat to the tribe. The chief handed him some wood and told Paulo to head to the shore and there he would find forty-one metre square planks and rope. He could build himself a raft. He gave Paulo some great survival tips, but one stayed in his mind: *The raft must be a square to float and be the biggest you can make.* However, Paulo was tired and exhausted and was about to make a mistake which could cost him his life.



Paulo

$6\text{m}^2$  is equal to 12m.  
I only need 12 planks  
to make my square  
raft.

5. Explain his mistake to him before it's too late. Work out how many planks he really needs.

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Paulo set sail. He wondered how far it would be until he reached home. Suddenly, he remembered Uncle Deadeye had also given him a map. He took the map from his pocket.



He measured the map and thought carefully about how to calculate the distance home. But he was still exhausted.



Paulo

I've measured 12cm on the map.  
So I think I've got 12,000 miles to  
get home because  
 $12,000 \div 100 = 12\text{cm}$   
But then if I do the inverse  
 $12 \times 100 = 1,200!$   
So do I have 1,200 or 12,000 miles  
to get home? I'm so tired and  
confused!

6. Explain to Paulo how far it is to reach home and where he went wrong.

After a long journey, he reached home and ran into Uncle Deadeye's arms. But Paulo was intrigued!

"How did you know all about the island?" he asked his uncle.

"Well, maybe one day you will find out Paulo. But for now at least you're home safe and well." replied Uncle Deadeye, as he pulled down his eyepatch.

## English

We have learnt about determiners in English this year. Can you use your knowledge to answer the questions?

1. **Tick** the sentence which is correct.

Determiners come after a noun.

☐

Determiners come after adjectives.

☐

Determiners come before a noun.

☐

Identify the determiners by underlining them. Determiners are the words that come before the noun to give the reader information about it, for example, the number of nouns, or who they belong to.

1. Which cup should I take from the cupboard?
2. Those boots are so dirty, they need to be cleaned.
3. His coat was blue, just like his eyes.
4. That is the tree which used to have a swing on it.
5. Five bees were buzzing around the sunflower.
6. Could I have less ice cream please?
7. Some people think that this town is boring.
8. It is good to brush your teeth twice a day.

### **Challenge Questions**

9. She bound her pens together using an elastic band.
10. Our greatest challenge will be crossing the river without being seen by the guard in that tower.

**our      few      their      many      which      your      these**

Help Determiner Dog complete the sentences below by adding the correct determiner. Use each determiner in the box above to help complete each sentence.

1. \_\_\_\_\_ book do you want to read first?
2. In Spain, \_\_\_\_\_ towns celebrate the festival of San José in March.
3. \_\_\_\_\_ new classroom didn't have enough chairs.
4. After sharing with her friends, Kacie only had a \_\_\_\_\_ sweets left.
5. "\_\_\_\_\_ dad is really funny," said Jake to his friend Raj.
6. "\_\_\_\_\_ dog is called Hugo," said Ken and Charlie.
7. "Take \_\_\_\_\_ tickets and hand them in at the entrance," said the man at the ticket box.

Write a sentence containing each of the determiners below.

our: \_\_\_\_\_

an: \_\_\_\_\_

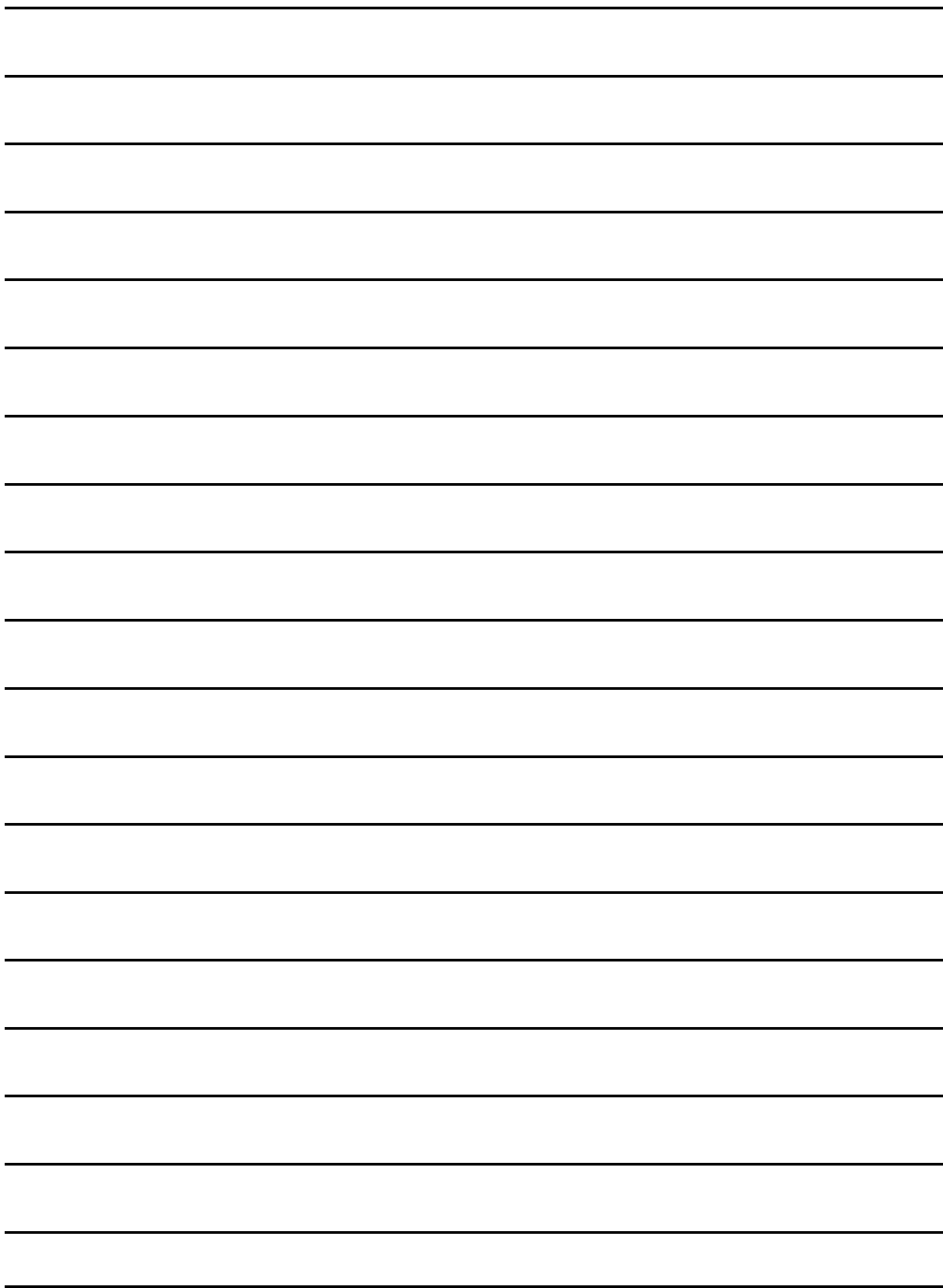
many: \_\_\_\_\_



Edit the letter you have written to someone in another country. If you'd like, you can create a published version of your letter (you could type it on the computer or write it up on note paper). Make sure that you have used all of the SPaG on your checklist.

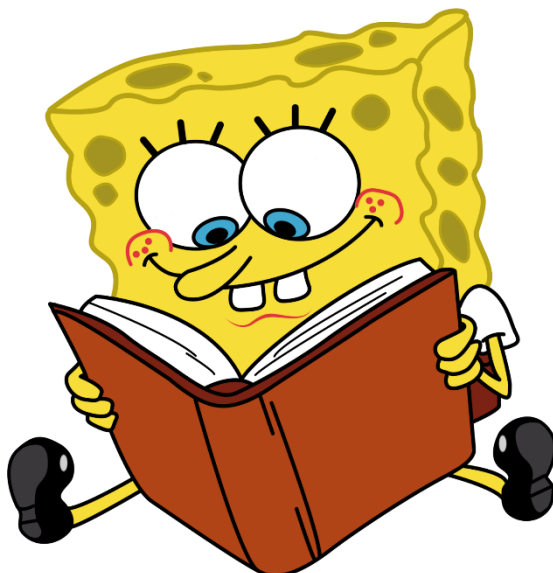
Informal language	
Relative Clauses	
Semicolons	
Colons	
Fronted adverbials/adverbial phrases	

This image shows a blank sheet of white paper with horizontal black ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.





Please remember to continue reading your books at home and filling in your diaries.



## Religious Education

We have been learning about forgiveness in RE.

# Desmond Tutu

There are many examples through history of individuals who have helped the process of peace by teaching about forgiveness.

One of these people is Archbishop Desmond Tutu.

Desmond Tutu is an important figure in the South African Anglican Church.

He is well known for being a human rights activist and has received the Nobel Peace Prize.

He has also written books about forgiveness.



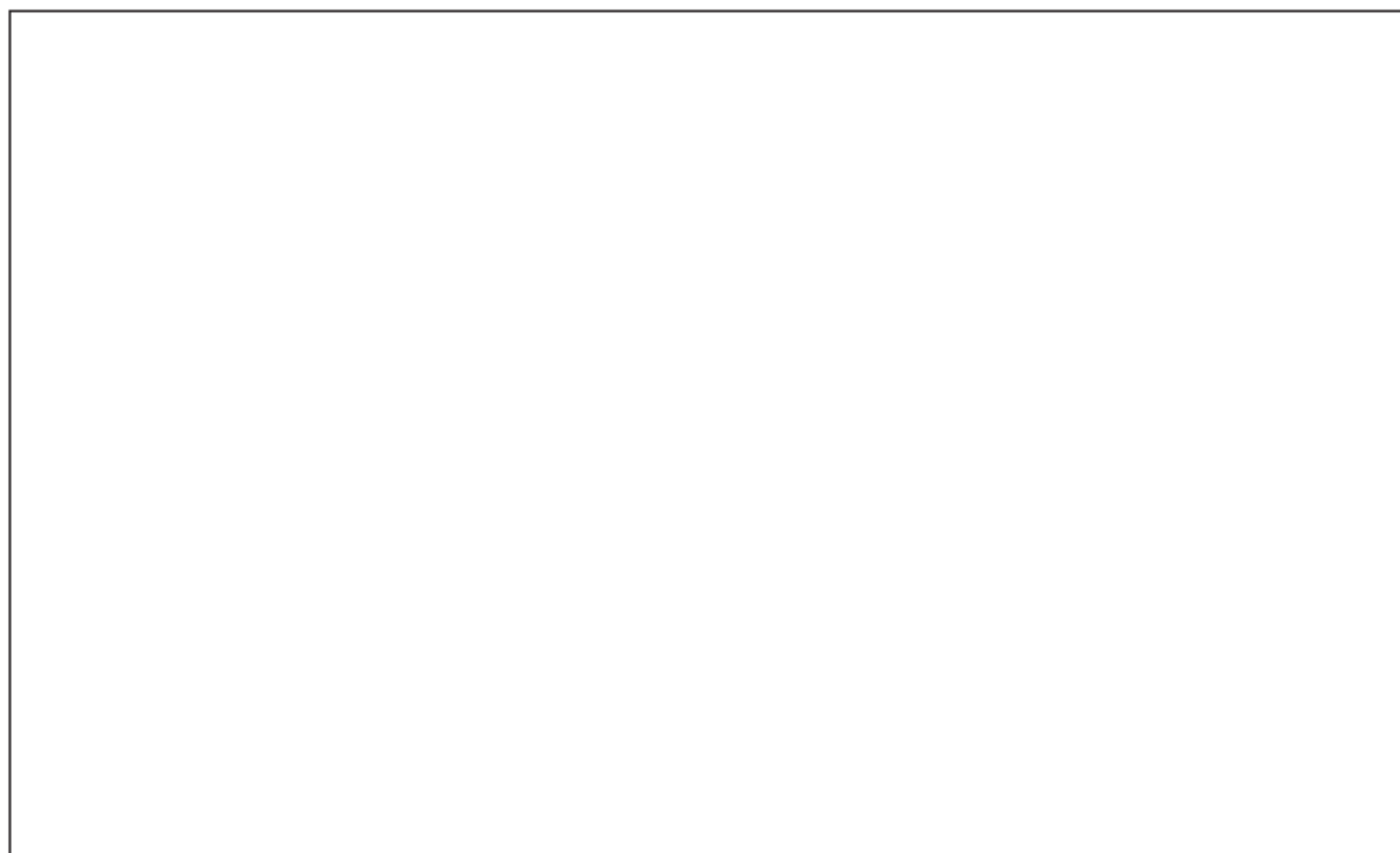
"Forgiving is not forgetting; it's actually remembering - remembering and not using your right to hit back. It's a second chance for a new beginning. And the remembering part is particularly important. Especially if you don't want to repeat what happened." - **Desmond Tutu**

Imagine that a charity which works to promote peace and forgiveness around the world has asked you to create a symbol for forgiveness.

How can you incorporate the key ideas associated with forgiveness into one image?

Can you make sure that the symbol you come up with draws upon core beliefs about forgiveness shared by different religions and by people with no religion?

Draw your symbol for forgiveness here:



Add labels to explain what the different parts of your symbol mean.

I chose this symbol to represent forgiveness because \_\_\_\_\_

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I think it would be useful to have a universal symbol for forgiveness because \_\_\_\_\_

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freedom, anger, bitterness, negative, positive, peace, progress, friendship,  
remember, learn, together, understanding, image, united



## Keeping Active

Time to get moving! Each day at 9 am, Joe Wicks is broadcasting a 30-minute live workout. Find a space in your house to get your body moving and heart pumping along with viewers from around the world!

You can find all of the workouts from this week on the page below:

<https://www.youtube.com/channel/UCAxWIXTOiEJoOTYlRfn6rYQ>

Joe Wicks, a man with curly brown hair and a beard, is standing in a classroom. He is wearing a bright green t-shirt, black shorts, and white sneakers. He is gesturing with his right hand towards the camera. Behind him is a classroom wall covered with various educational posters, including a clock showing 12:49:36, a 'PLACE VALUE!' chart, and several math formulas. To his right is a wooden storage unit with green drawers. The floor is green.

**P.E. WITH JOE**

**Monday - Friday**

**9am Live on YouTube**

**The Body Coach TV**

**#PEwithJOE**

*Keep up to date with what's happening in the world!*

*Each week, we will share the new issue of First News on the school website.*

<http://www.ortans.richmond.sch.uk/page/?title=First+News&pid=1515>

# **FirstNews**

**NEWS TO GET YOUNG PEOPLE TALKING**

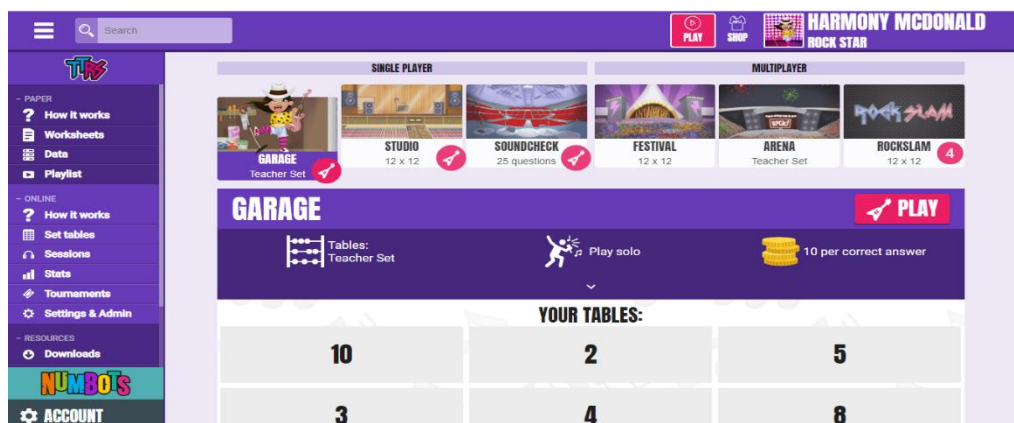
*You could also spend 10 minutes each day watching Newsround.*

<https://www.bbc.co.uk/newsround>



*Don't forget to use the websites we have set up for you!*

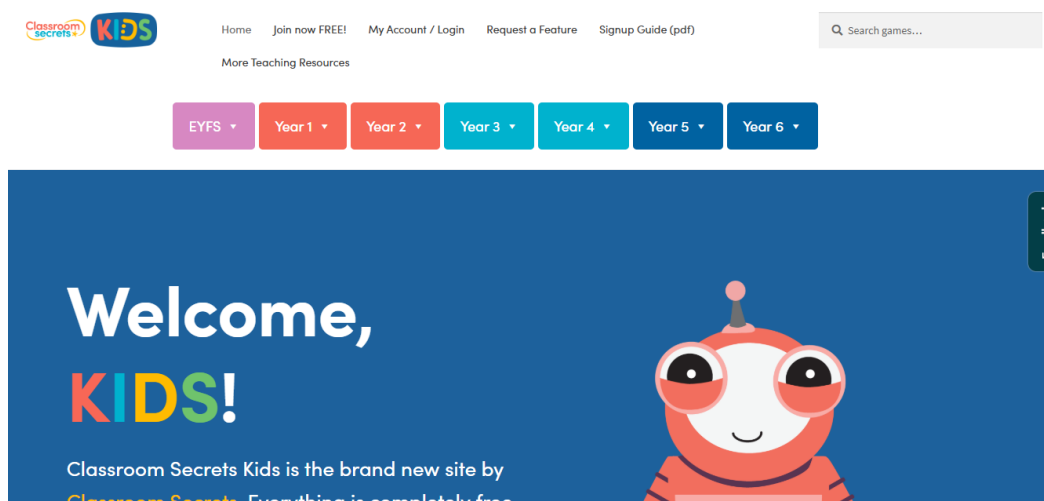
Times Tables Rockstars: <https://trockstars.com/>



NumBots: <https://play.numbots.com/>



Kids Classroom Secrets: <https://kids.classroomsecrets.co.uk/>





	9:00- 9:30	9:30- 10:30	10:30- 11:00	11:00- 12:30	12:30- 1:30	1:30- 2:30	2:30
Monday	Joe Wicks PE lesson	Maths	Brain Break	English	Lunch	History	Down Time
Tuesday	Joe Wicks PE lesson	Maths	Brain Break	English	Lunch	Science	Down Time
Wednesday	Joe Wicks PE lesson	Maths	Brain Break	English	Lunch	Art	Down Time
Thursday	Joe Wicks PE lesson	Maths	Brain Break	English	Lunch	RE	Down Time
Friday	Joe Wicks PE lesson	Maths	Brain Break	English	Lunch	PSHE	Down Time

We have included some Brain Break Ideas on the School Website along with this Learning from Home pack.