Kingfisher Class Home- Learning- Summer 2- Week 2

Kingfisher Class Home- Learning- Summer 2- Week 2- Maths

Monday: Simplifying fractions, mixed numbers and improper fractions.

Fractions

Write which fraction is the odd one out:

1. $\frac{2}{4}$, $\frac{8}{16}$, $\frac{3}{5}$, $\frac{4}{8}$
2. $\frac{3}{6}$, $\frac{1}{3}$, $\frac{3}{9}$, $\frac{4}{12}$
3. $\frac{1}{5}$, $\frac{2}{7}$, $\frac{2}{10}$, $\frac{4}{20}$
4. $\frac{3}{4}$, $\frac{9}{12}$, $\frac{30}{40}$, $\frac{12}{15}$

Simplify these fractions:

5. $\frac{6}{12}$
6. $\frac{10}{40}$
7. $\frac{6}{10}$
8. $\frac{10}{100}$
9. $\frac{6}{9}$
10. $\frac{8}{12}$
11. $\frac{9}{12}$
12. $\frac{9}{15}$

Write these as mixed numbers. Simplify if you can:

13. $\frac{5}{4}$
14. $\frac{7}{5}$
15. $\frac{11}{4}$
16. $\frac{15}{7}$
17. Write three improper fractions between 2 and 3 belonging to the twelfths family, that will simplify. Change each into a mixed number. Which fraction families do they belong to?

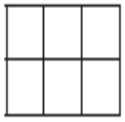
Tuesday: Adding fractions

Aim: To add fractions with denominators that are multiples of the same number.

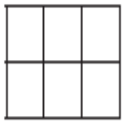
For the first fraction in each calculation, shade the correct number of columns. For the second fraction, shade the correct number of squares. Use the diagram to calculate the answer.

Example: $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$

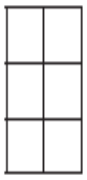
1. $\frac{1}{3} + \frac{1}{6} =$



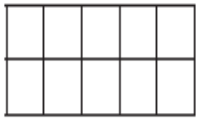
2. $\frac{2}{3} + \frac{1}{6} =$



3. $\frac{1}{2} + \frac{1}{6} =$

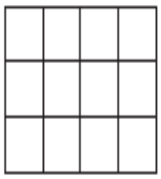


4. $\frac{2}{5} + \frac{3}{10} =$

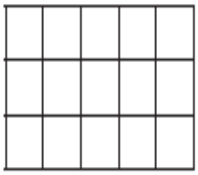


5. $\frac{5}{6} + \frac{1}{12} =$

6. $\frac{1}{4} + \frac{5}{12} =$



7. $\frac{2}{5} + \frac{2}{15} =$

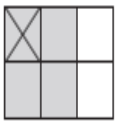


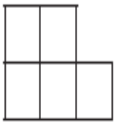
8. $\frac{1}{4} + \frac{3}{8} =$

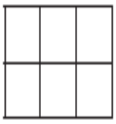
Wednesday: Subtracting fractions

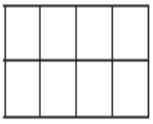
Aim: To subtract fractions with denominators that are multiples of the same number.

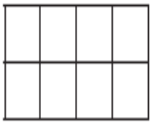
For the first fraction in each calculation, shade the correct number of columns. For the second fraction, put a cross in the correct number of shaded squares. Use the diagram to calculate the answer.

Example: $\frac{2}{3} - \frac{1}{6} = \frac{3}{6}$ 

1. $\frac{3}{5} - \frac{1}{5} =$ 

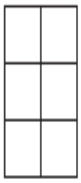
2. $\frac{1}{3} - \frac{1}{6} =$ 

3. $\frac{1}{4} - \frac{1}{8} =$ 

4. $\frac{3}{4} - \frac{3}{8} =$ 

5. $\frac{2}{5} - \frac{1}{10} =$ 

6. $\frac{3}{4} - \frac{1}{2} =$ 

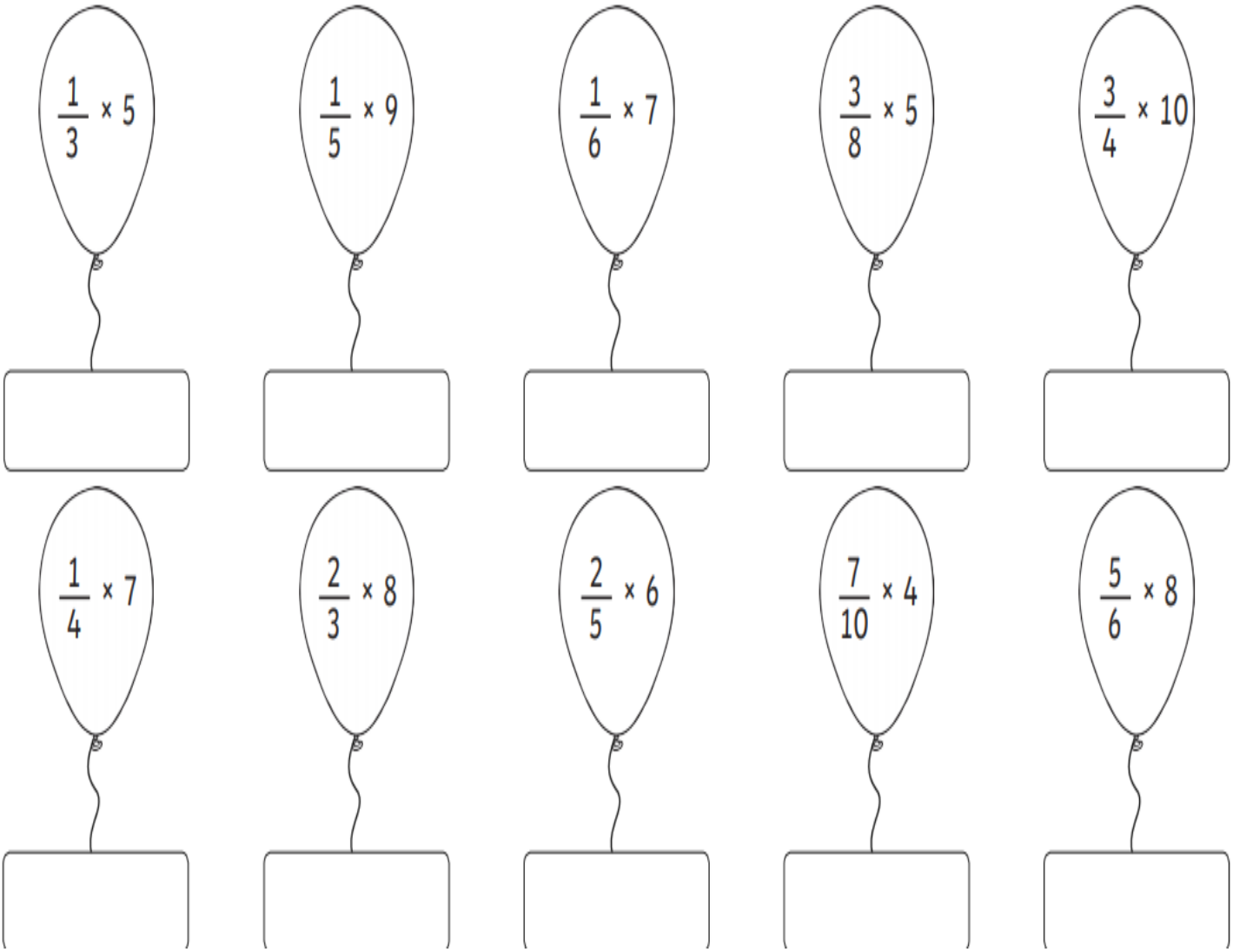
7. $\frac{5}{6} - \frac{1}{2} =$ 

8. $\frac{9}{10} - \frac{4}{5} =$ 

Thursday: Multiplying fractions

I can multiply fractions by whole numbers.

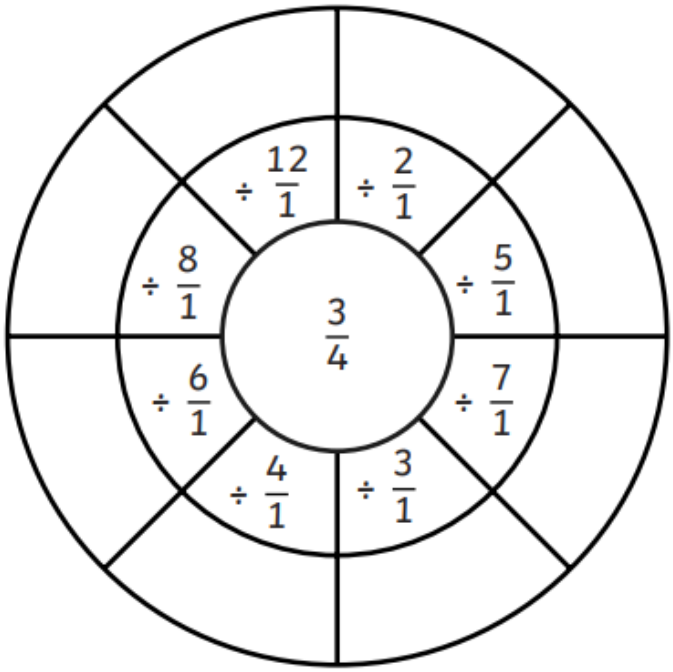
Calculate the answers to the balloons. Write each answer as a mixed number.



Friday: Dividing fractions

I can divide pairs of proper fractions by proper fractions.

Write the answer to each calculation in the outer ring of the wheel:



Top Tips for Dividing Fractions

1. Change the division sign to a multiplication sign.
2. Invert (flip) the second fraction.
3. Multiply the numerators together.
4. Multiply the denominators together.
5. If necessary, simplify the answer by dividing by the greatest common factor.

1. $\frac{3}{5} \div 2 =$

2. $\frac{1}{2} \div 2 =$

3. $\frac{3}{4} \div 6 =$

4. $\frac{5}{6} \div 2 =$

5. $\frac{5}{8} \div 4 =$

6. $\frac{1}{4} \div 7 =$

7. $\frac{7}{8} \div 3 =$

8. $\frac{7}{9} \div 5 =$

Optional extra maths lessons for the week, using Oak National Academy:

Converting between time measurements:

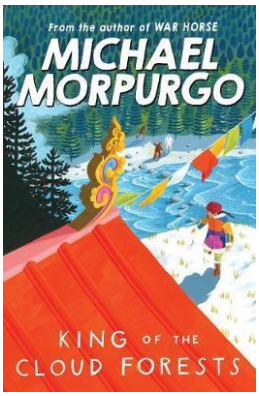
https://www.thenational.academy/year-5/maths/to-convert-between-seconds-minutes-and-hours-year-5-wk3-1

Problem solving involving converting time measurements:

https://www.thenational.academy/year-5/maths/to-solve-problems-involving-converting-between-hours-and-minutes-year-5-wk3-2

Perimeter and converting measurements:

https://www.thenational.academy/year-5/maths/to-find-the-perimeter-and-convert-units-of-measurements-year-5-wk3-5



Kingfisher Class Home- Learning- Summer 2- Week 2- English

Monday, Tuesday and Wednesday:

L.O- To plan, write and edit a story including a journey.

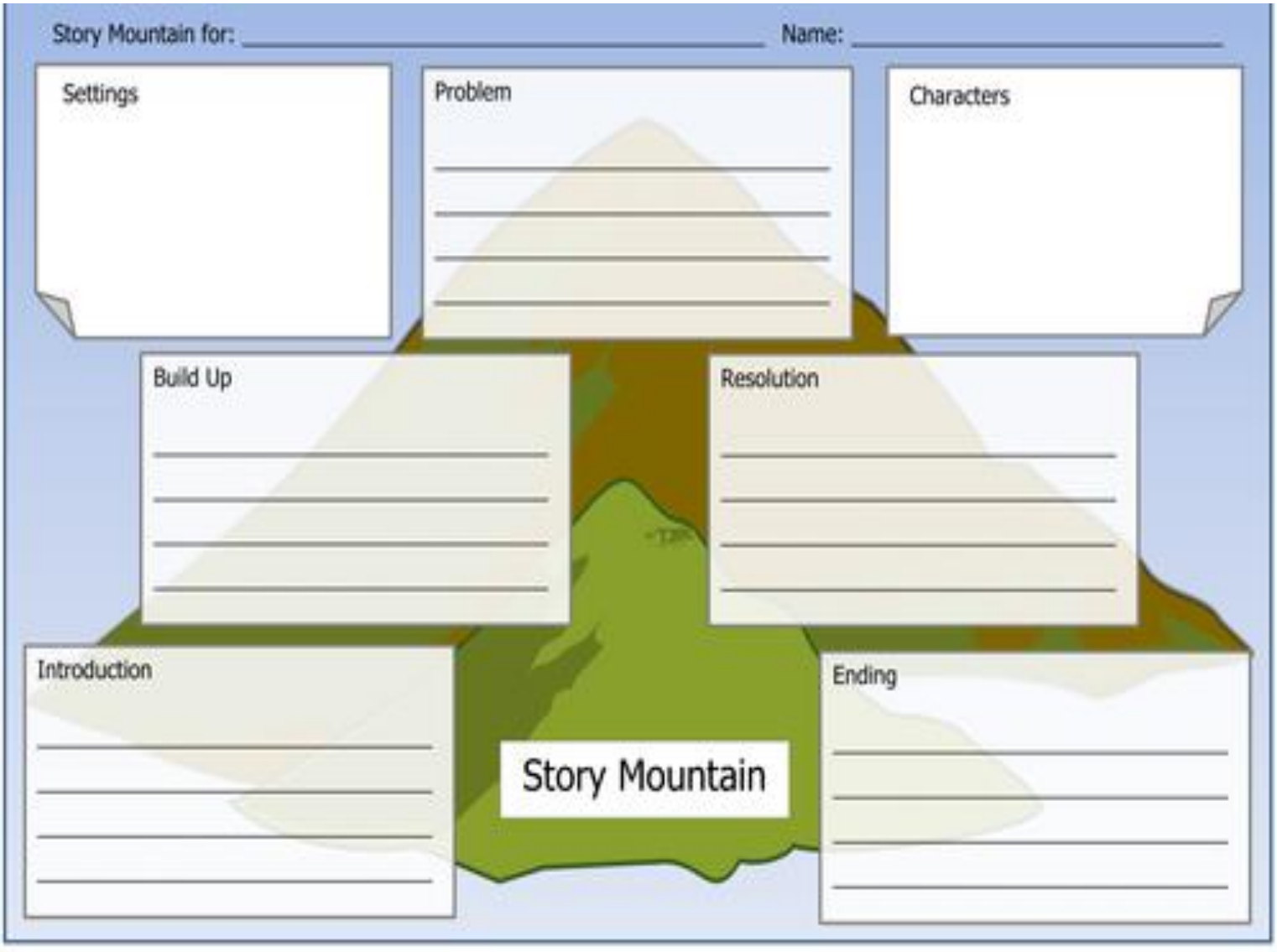
Our new text for this term is... King of the cloud forests by Michael Morpurgo (one of Miss Brown's favourites!)

In this story, the character goes on a journey to a mountain and meets something, which I cannot say what this something is; otherwise it will ruin the surprise.

Over the next few days, I would like you to write your own story. It must be a narrative that involves a journey; a character that meets someone or something and an aspect of mountains, so it will match our topic.

My suggestion is:

Monday: Make this your planning day. You could use a story mountain to help you like below:



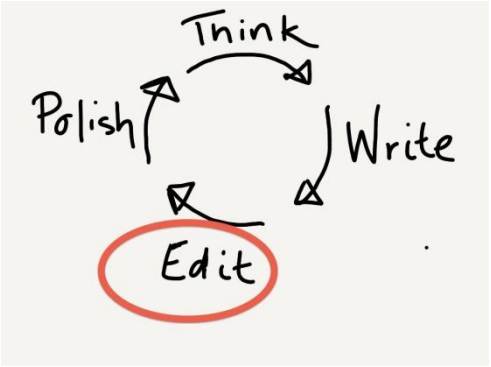
Tuesday: This could be your writing day and I would recommend a quick edit after each paragraph. It might help to read aloud to yourself, it definitely helps me when I mark your stories! ☺

← Miss Brown's quote of the week!

Wednesday: Today you could look at your writing checklist (if you have it) don't worry if not and tick off everything you think you have achieved, well done for the objectives you already have ticked off and think when your editing 'how can I include the rest?'

The best way to do this is to read aloud or use monkey ears to read to yourself quietly. When you are reading to yourself look for any spelling, punctuation or grammar mistakes; check for any missing words and also think of ways you could improve you writing. Like in school you could use a purple polishing pen to do this.

After you have finished editing, you could write it up neatly or type it onto the computer.



When you have finished your story and feel proud of your writing, share it with a member of your family or friend. You could do this by simply reading it to someone in your house hold; sending it in the post to a family member or friend to enjoy reading; read it over the phone to someone; you could read your story over video call to someone with adults permission or you could send it to me, so I can read your story through email on Purple Mash.

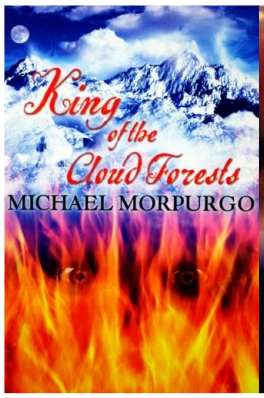
Thursday:

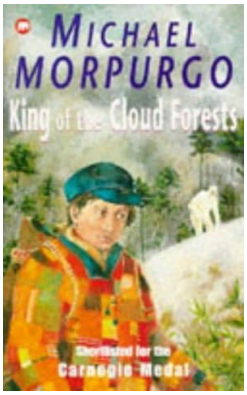
L.O- To examine the success of the opening chapter in engaging the reader's interest.

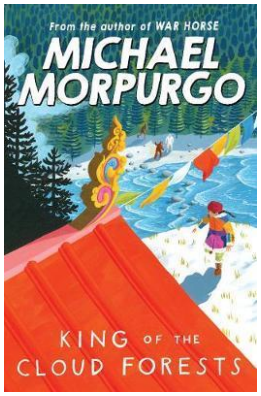
King of the cloud forest- Michael Morpurgo

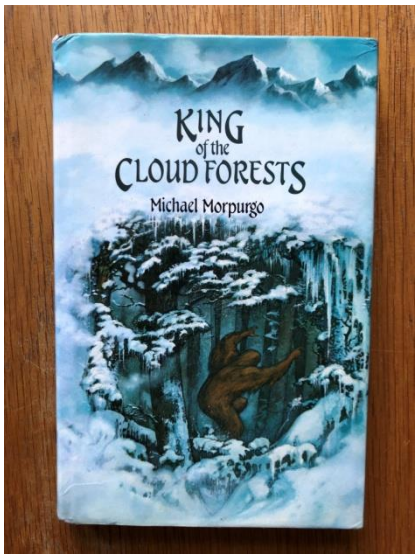
First Activity-Answer the questions below:

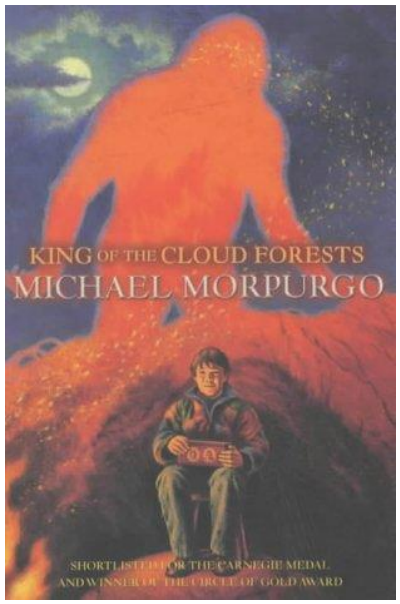
- What is the name of the book and author?
- Where is the story set, how do you know?
- What does the picture on each front cover make you think about the story? How does the front cover do that?

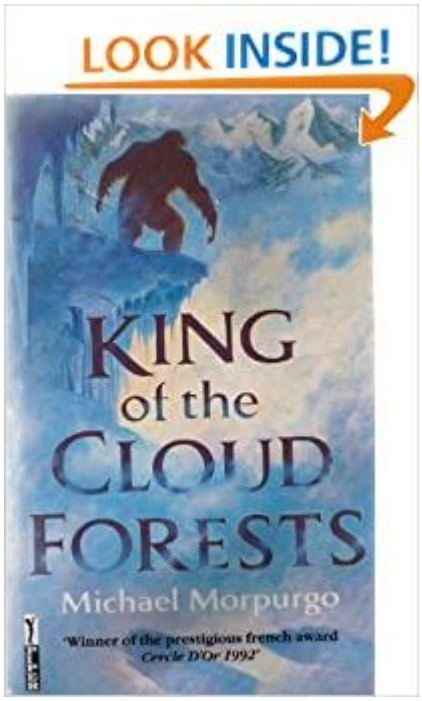






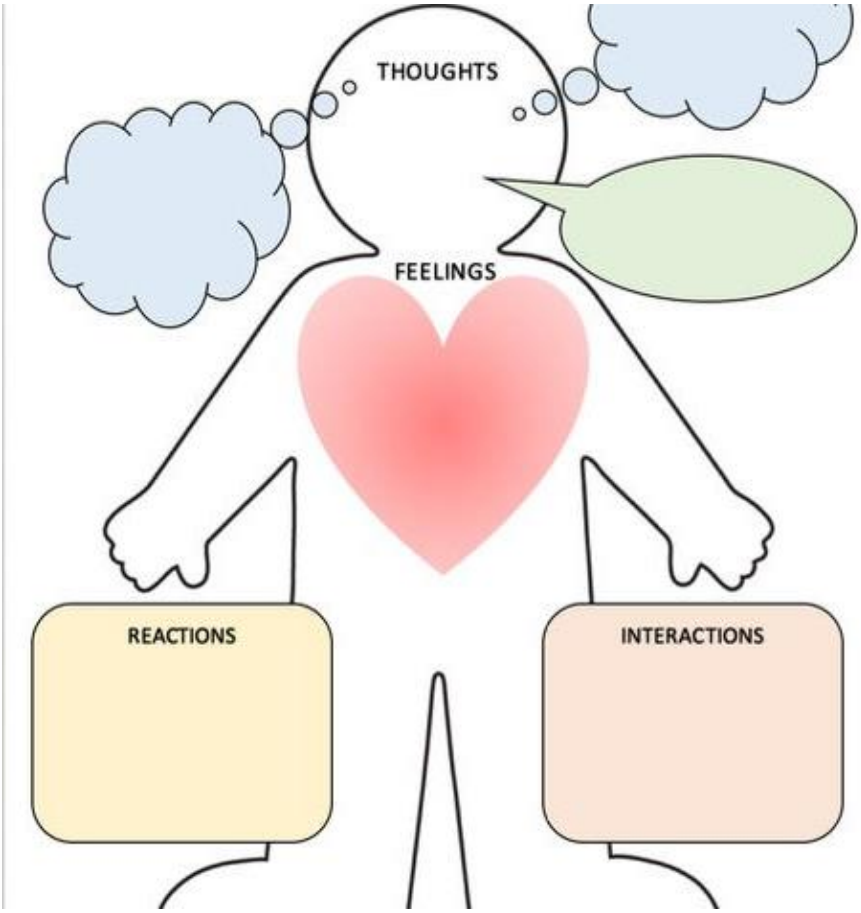






Second Activity:

- Read chapter 1- (see attached document)
- Jot down all of the key information about the characters: Ashley and Mr Anderson- you can present this information any way you wish to, for example: a role on the wall like below.

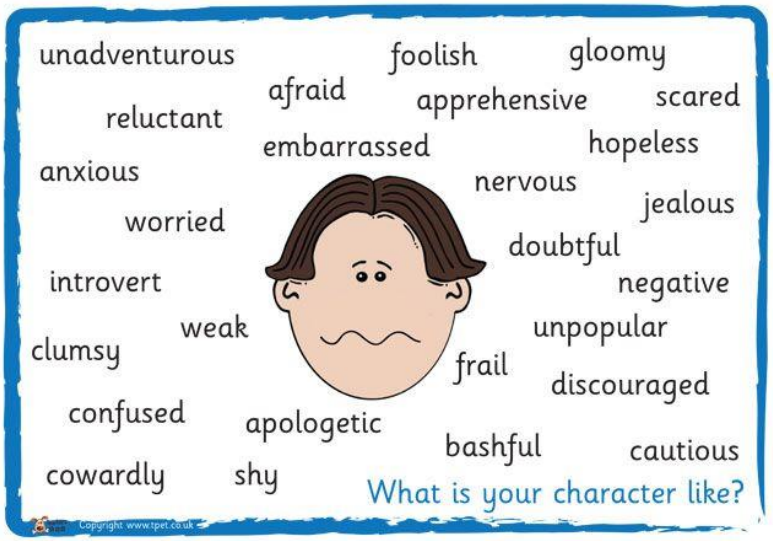


1. Discuss the image of the opening sentence and why it might draw the attention of a reader browsing in a bookshop?

2. Why might they want to read on to the second sentence?

3. Next, discuss the effectiveness of the last sentence and why it might make the reader want to read the next chapter?

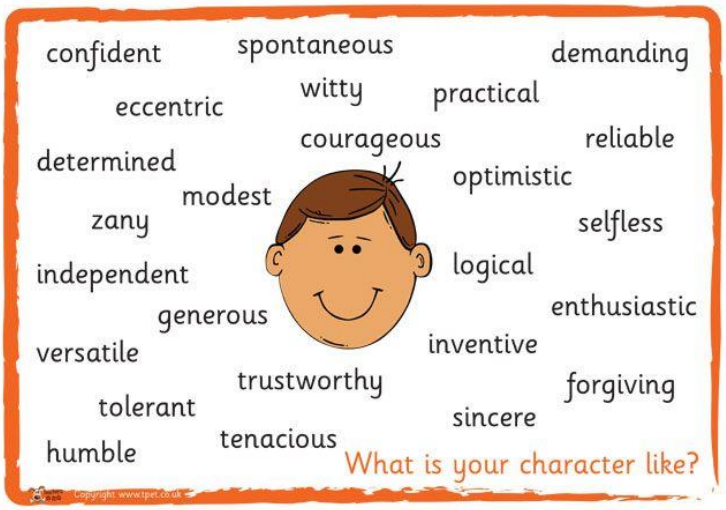
4. How successful the opening chapter is: in setting the scene; introducing characters; developing the reader's curiosity, etc.



Friday:

L.O- To write a descriptive paragraph about key characters.

- Re-cap on yesterday's lesson and re-read chapter 1if you need to.

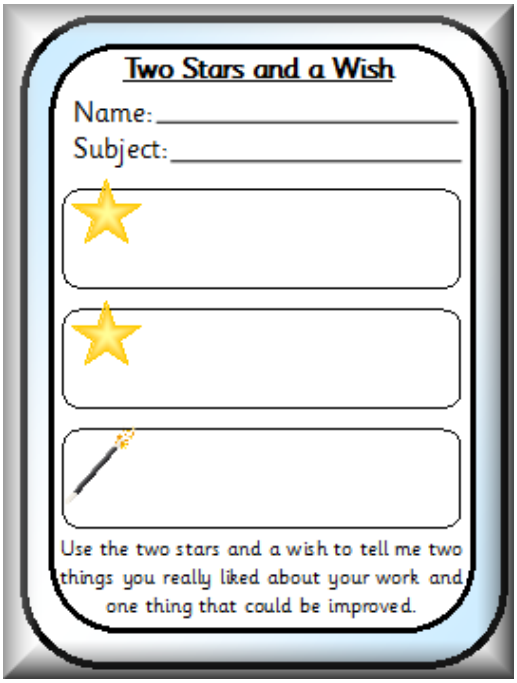


Today you have a choice, you can either:

- Write a short paragraph about each character using their name as a sub-heading. In each paragraph, write down everything you now know about the character in full sentences.
- Or you can choose to write about one character, as a character description in full detail.

- Remember to re-read, edit and improve after each paragraph.

- Read your writing out loud to someone in your household. Write two stars and a wish.



Kingfisher Class Home- Learning- Summer 2- Week 2- Foundation Subjects

Science – Refraction

Refraction Riddle

This photo shows the effect created when light is refracted.

What is happening?

These children are talking about why the straw looks broken, when they know it isn't. Who do you agree with? Why?

I think the water has bent the straw so it looks like it has broken.

The light can't travel through the glass properly and the ray of light is broken. This makes the straw look broken.

Light travels at different speeds through water and glass, making the ray of light bend. This makes the straw look bent or broken.

The straw is opaque and the glass is transparent, which causes light to be twisted, making the straw look bent and broken.

https://www.bbc.co.uk/bitesize/clips/zqg3cdm

Watch this video to find out more about refraction

While you are watching, think about:

What happens when light travels from air into another transparent material, such as glass, plastic or water?

How does a lens focus light?

What is refraction?

Light waves travel at a different speed when they go through other transparent materials, such as water or glass. This causes the rays of light to change direction and bend. This is known as refraction.

Refraction creates illusions. Because light bends when it travels between air and water or glass, objects seen through these materials look bent or distorted.

Amazing Arrow experiment!

On a small piece of paper, draw a horizontal arrow.

You will hold it behind a glass of water and observe what happens.

What do you predict will happen?

Why do you think this will happen?

Try it out! Draw and write about what you observe.

Can you explain what happened? Use your understanding of refraction to explain your thoughts.

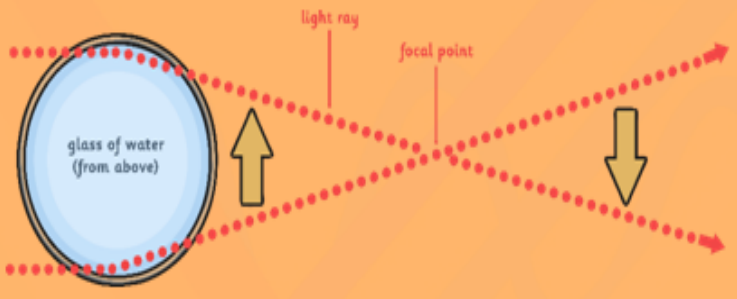
WARNING!

Do not read this unless you have completed experiment and write up...

Amazing Arrow: What Happened?

In this investigation, when you place your arrow at a certain distance behind the glass of water, it appears to point in the opposite direction. The arrow turns because the light travelled from the air, through the glass, through the water, through the back of the glass, and then back through the air, before hitting the arrow. When light passes from air through a transparent material, it refracts, causing it to bend.

Because the glass is curved, it also acts a lens, focusing the rays of light. Where the light all comes together is called the focal point, but beyond the focal point the image appears to reverse. The rays of light that were bent cross each other, so that the light from the left of the arrow is now on the right, and light from the right of the arrow is now on the left. This is what causes the arrow to appear reversed.



Topic- Geography

Locating UK Mountains

Use a brown pencil crayon to shade the main areas of high ground in the UK.
Label each one and find out the height of its highest peak.

	1. Pennines	2. Grampian Mountains	3. Snowdonia	4. Dartmoor	5. Cumbrian Mountains	6. Sperrin Mountains
Height in m of highest peak						
County highest peak is located in						

DT- You will need adult's permission to use resources and help in creating this model (this is an optional activity and will be the DT activity for 2 weeks, as you need resources and adult support).

Make a Recycled Plastic Bottle Car

An Activity Linked to Unicef's Playground Challenge

Article 31 of United Nations, 'Rights of the Child' states that **all children have the right to play**. The Playground Challenge helps to support this right, fundraising so that children can play safely.

Unicef supports centres, in countries in Africa, helping communities to provide safe places to play. Children sometimes make toys from recycled materials. Watch the video to see how **Dennis makes a toy car**.

Could you recycle a plastic bottle to make a plastic bottle car?

Video Link - https://vimeo.com/34563622

You will need:

A plastic bottle with its top

4 bottle tops (same size)

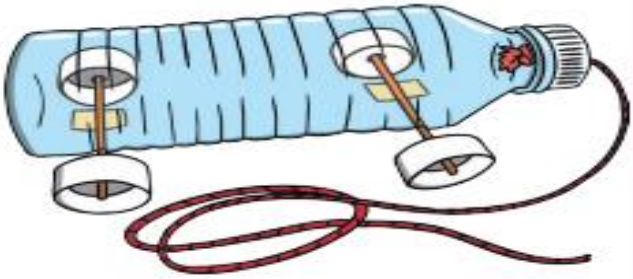
String

2 straws

Tape or masking tape

Something sharp to pierce the bottle tops, such as a pin.

Like Dennis, try to use recycled materials where you can.



Instructions

1. Pierce a hole through the centre of each bottle top. You might need help from an adult to do this.
2. Using tape, attach a straw to the underside of the bottle (one at the front and one at the back). Trim the straw so it doesn't stick out too much. These will become the axles of the car.
3. Thread a piece of string through the hole in one bottle top. Tie a knot in the end on the inside of the lid, then screw it in place on the bottle.
4. Place a bottle top onto the end of each straw. Having the top of the bottle lids facing the 'car' will make it more stable.
5. Pull the string to move the car.

ART

For art this week, you will be focussing on creating your own materials to use in a collage to support our Art topic. This lesson is inspired by Eric Carle who illustrated The Hungry Caterpillar, which is definitely one of your Year R buddies favourite books. He also illustrated the children's book, 'The Mountain that loved a bird', which caught my eye!

Today you will be experimenting with Eric Carle's collage technique, which is a lot of fun but can get messy so please make sure you are being sensible, wearing an apron and make sure you are in a place, in your home, where you can wipe surfaces and floors or be extra safe and put some newspaper down! We want to keep everything clean and tidy! It is your job to clean up after! ☺

Please watch this YouTube clip
→https://www.youtube.com/watch?v=PdZ6dXujnik

You will need:

Paper

Paints

Paint brushes

Cardboard

String

Glue

Scissors

Eric Carle Inspired Art for Kids

In the video, it shows how you can create collage hearts but I realise hearts are not for everyone, so you can choose any shape you like. You could choose any shape for example: stars, triangles, circles, etc- This is your choice but follow the same technique.

Top tip as not shown in video: make sure paint has dried completely on your painting designs before cutting and using for collage. I cannot wait to see your creations!

RE- New topic- Places of worship

- Discuss with your family: why do we have places of worship? - Note down your thoughts
- Can you list the different places of worship?

- What are the similarities and differences between each place of worship?

  Please present this information and your thoughts neatly.

PE

Sequence Champions

Home Physical Education

Can you perform your sequence and ask for feedback?

How to play:

- Use a dice to create a movement sequence.
- You are going to add 3 movements together.
- Roll the dice 3 times to see which 3 movements you will need to perform:

Roll a 1 = A star jump
Roll a 2 = A roll
Roll a 3 = A turn
Roll a 4 = A twist
Roll a 5 = A tuck jump
Roll a 6 = A balance

- Think of creative ways to link the movements.
- Practice your sequence and then perform!

Can you keep practising to improve your sequence?

Top Tips

Link your movements

When you finish your first movement try and move into the next movement smoothly without pausing.

Let's Reflect

What did you find difficult about linking your movements together?

Did you manage to complete the sequence without stopping?

Computing

Please log on to Purple Mash to see the 2do's set for the week (Please do at least one 2do- Make sure you press the 'hand in' button so that I am able to give you feedback). Also, remember to log onto My Maths weekly and practise times tables on Times tables Rockstars.

PSHE and Music

- Play the song and video clip 'This is me from the Greatest Showman'.
- Sing along with it and look closely at the lyrics, link below:

https://www.youtube.com/watch?v=IfGmj_NZ85M

- Discuss with your family what the song is about and think about how being our true selves is sometimes the bravest thing we can do.

- Can you write a definition for being brave?
- Can you give examples of when you have been brave? How did this feel?

- Can you draw a brave cartoon character adding the qualities it will have, the things that will help it to be brave and a motto or quote to go with it.

Just to let you know that I have planned a lot of activities but please don't feel pressured to do them all. Do what is right for you and your family. I would rather you have too much then too little but it doesn't mean you have to complete everything or you can save it for when you feel like doing something to keep you occupied. Please get outside in the fresh air if you can, in a safe way and be helpful to your family. Remember you can use the National Oak Academy lessons if you wish to, using this website: https://www.thenational.academy/online-classroom/schedule From Miss Brown ☺