



Kingfisher Class Home- Learning- Summer 2- Week 3

Kingfisher Class Home- Learning- Summer 2- Week 3- Maths



Monday: Converting measurements and arithmetic questions

← Please convert these measurements from cm to m.

250 cm	428 cm	99 cm
45 cm	1375 cm	2400 cm
7840 cm	10 cm	6 cm

Please convert these measurements from cm to mm. →

3 cm	25 cm	6.7 cm
34 cm	125 cm	40 cm
0.8 cm	1.2 cm	10.6 cm

BRONZE	
1)	$186\,437 - 36\,208 =$
2)	$3612 \div 12 =$
3)	$5^3 =$
4)	$45.6 - 12.05 =$
5)	$20\% \text{ of } 3400 =$
SILVER	
1)	$17.6 \times 8 =$
2)	$13.451 \times 1000 =$
3)	$1/5 \div 8 =$
4)	$25 \div (12 - 7) =$
5)	$65\% \text{ of } 4000 =$

1.) $3\text{m} = \square \text{ cm}$

2.) $7,200\text{ml} = \square \text{ litres}$

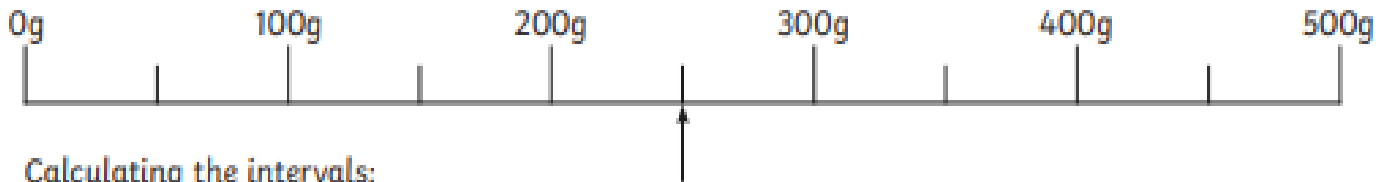
3.) $\square \text{ cm} = 80\text{mm}$

4.) $\square \text{ g} = 1.9\text{kg}$

Tuesday- Reading scales

For each scale, write a calculation to show how you worked out what each interval is worth and then say how many grams the arrows are pointing to. The first one has done for you.

Scale 1:



Calculating the intervals:

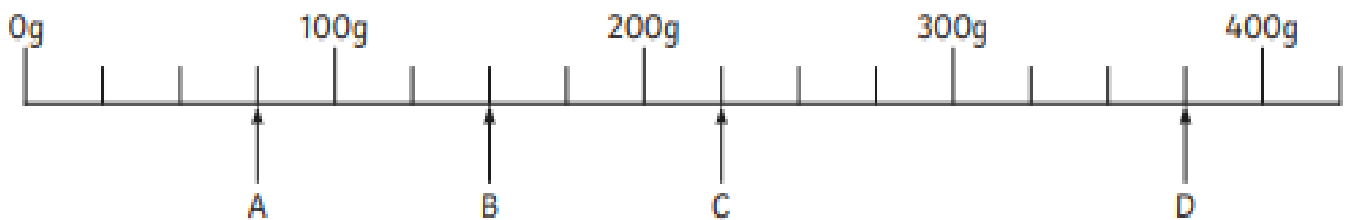
There are 2 intervals between 0 and 100.

$$100 \div \underline{2} = 50$$

Each interval is worth 50 g.

The arrow is pointing to 250 g.

Scale 2:



Calculating the intervals:

There are ____ intervals between 0 and 100.

$$100 \div \underline{\quad} = \underline{\quad}$$

Each interval is worth ____ g.

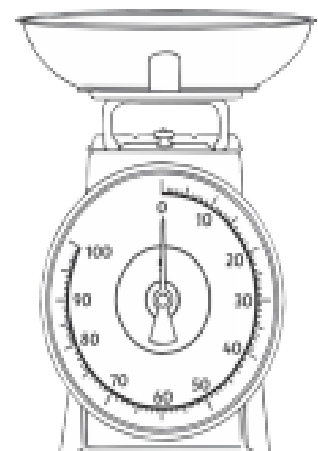
Arrows are pointing to:

A ____ g

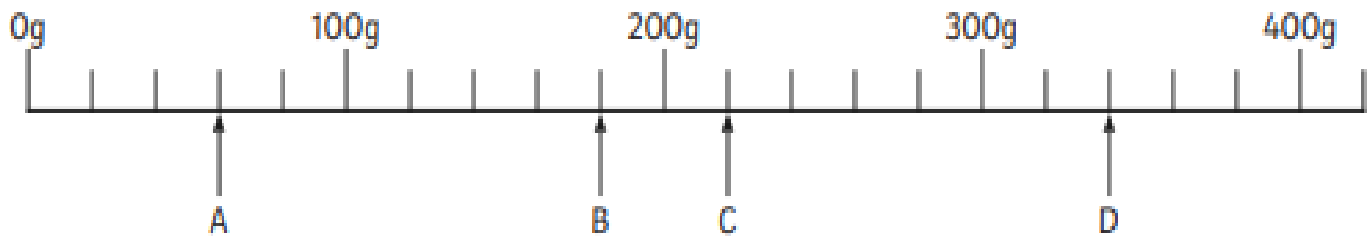
B ____ g

C ____ g

D ____ g



Scale 3:



Write a sentence to explain how you calculated the intervals:

Calculating the intervals:

Arrows are pointing to:

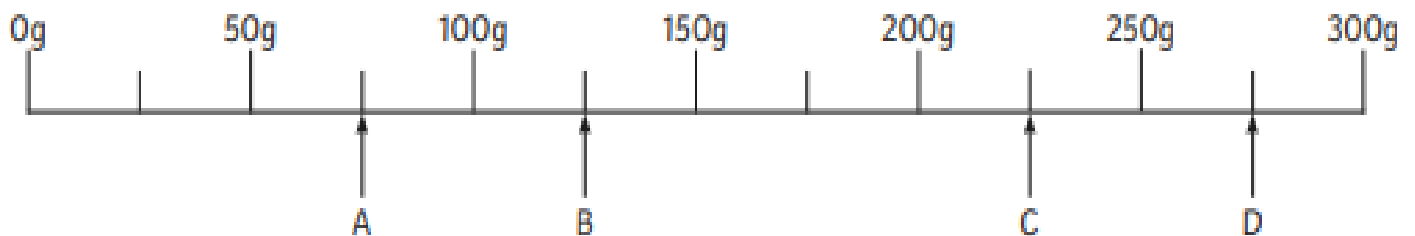
A ____ g

B ____ g

C ____ g

D ____ g

Scale 4:



Write a sentence to explain how you calculated the intervals:

Calculating the intervals:

Arrows are pointing to:

A ____ g

B ____ g

C ____ g

D ____ g

Wednesday: Introduction to Ratio

Ratio



A ratio is a way of comparing amounts of something. We use a colon to represent the word "to".

For example, the ratio of blue 'to' green sweets below is 3:4.



Why isn't the ratio 4:3?

As blue sweets were mentioned first, we take them to be the first number in the ratio. We could say, therefore, that the ratio of green to blue sweets is 4:3.

Ratio



We can treat ratios in the same way we do fractions: by dividing by the highest common factor, we can simplify them.

For example:

$$\begin{array}{r} 6:9 \\ \div 3 \\ \hline 2:3 \end{array}$$

Ratio



Write down the ratios, leaving your answers in their simplest form:

1. Blonde-haired children to dark-haired children.



2. Pink sweets to yellow sweets.



3. Suns to moons



Think, Pair, Share



Share £60 in the ratio 2:3.

How many parts are we sharing this into?

$$2 + 3 = 5$$

The first person is going to get 2 of these 5 parts, or $\frac{2}{5}$ of the total amount.

$$\frac{2}{5} \text{ of } £60 = 24$$

The second person is going to get 3 of these 5 parts, or $\frac{3}{5}$ of the total amount.

$$\frac{3}{5} \text{ of } £60 = £36$$

Therefore, the money is shared £24:£36.

How could we check this answer?

Add together the answers and make sure they equal the original amount.

$$24 + 36 = 60$$



Think, Pair, Share



Share £80 in the ratio 3:4:1.

How many parts are we sharing this into?

$$3 + 4 + 1 = 8$$

The first person is going to get 3 of these 8 parts, or $\frac{3}{8}$ of the total amount.

$$\frac{3}{8} \text{ of } £80 = £30$$

The second person is going to get $\frac{4}{8}$ or $\frac{1}{2}$ of the total amount.

$$\frac{1}{2} \text{ of } £80 = £40$$

The third person is going to get $\frac{1}{8}$ of the total amount.

$$\frac{1}{8} \text{ of } £80 = £10$$

Therefore, the money is shared £30:£40:£10.

$$\text{Check: } 30 + 40 + 10 = 80$$



Wednesday- Please follow these links for the rest of the lesson:

<https://www.bbc.co.uk/bitesize/topics/zsq7hyc/articles/z8kfnbk>

This website includes videos on:

- What is a ratio
- Ratios
- Simplifying ratios

Please take notes about ratio, so it can be a revision guide for the rest of the week.
You could even make a ratio poster!

To go to that next step and challenge yourself you could also visit:

<https://www.bbc.co.uk/bitesize/topics/zsq7hyc/articles/zsy3qhv>- How to convert ratio into fractions and percentages

<https://www.bbc.co.uk/bitesize/topics/zsq7hyc/articles/z2nr4wx>- Maths of the day: Roaring Ratios

Thursday: Problem- solving with recipes (ratio)

Use these recipes to answer the questions on the worksheet:

Cupcake Recipe - Serves 10

100g butter or margarine

100g caster sugar

2 free-range eggs, lightly beaten

1 tsp vanilla extract

100g self-raising flour

2 tbsp milk

For the buttercream icing

150g butter, softened

2 tbsp milk

200g icing sugar



Gingerbread Recipe -

Makes 10 servings

350g plain flour

1 tsp bicarbonate of soda

2 tsp ground ginger

1 tsp ground cinnamon

120g butter

180g light soft brown sugar

1 free-range egg

4 tbsp golden syrup



Use the recipes to answer the questions on the worksheet:

Cupcake Recipe Questions

1. How many grams of butter would be in each cupcake?

2. How many grams of caster sugar would be in 3 cupcakes?

3. How many eggs would be needed to make 20 cupcakes?

4. How many grams of icing sugar would be needed to make 40 cupcakes? _____

Gingerbread Recipe Questions

1. How many tablespoons of golden syrup would be needed to make 4 servings? _____

2. If 1 tbsp contains roughly 15ml of liquid, how many ml of golden syrup does the recipe contain?

3. The recipe uses 120g butter. How many grams would be needed to make 1 serving? _____

4. What fraction of an egg would be in each serving? _____

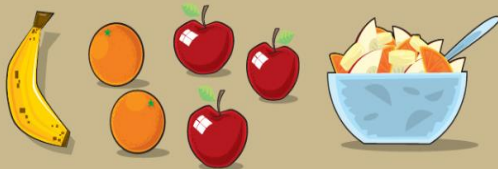
Friday: Problem solving (ratio)

Can you solve these problems?

Remember you could use the problem solving heuristics to help you for example you could: draw a picture, use the bar model, use a formal written method, create a table, write an explanation, make jottings, etc- this are not essential but could help.

1.

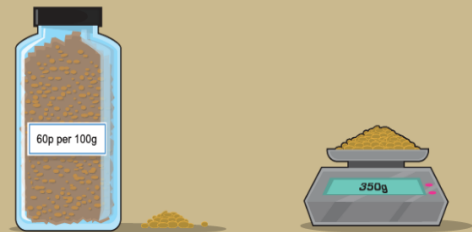
Maya makes a fruit salad using bananas, oranges and apples. For every 1 banana, she uses 2 oranges and 3 apples.



Maya uses 30 fruits. How many oranges does she use?

2.

Peanuts cost 60p for 100 grams.



What is the cost of 350 grams of peanuts?

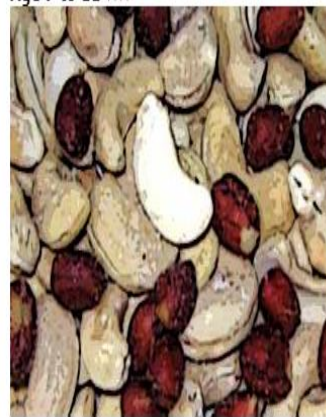
3.

Raisins cost 80p for 100 grams.
Jack pays £2 for a bag of raisins.



How many grams of raisins does he get?

4.



Rachel has a bag of nuts.
For every cashew nut in the bag, there are two peanuts.
There are 8 cashews in Rachel's bag. How many peanuts are there?

Marianne also has a bag of nuts.
In Marianne's bag, for every two cashew nuts, there are three peanuts.
Marianne's bag contains 12 peanuts in total. How many cashews are in her bag?

Rachel and Marianne decide to mix their bags of nuts together.
What is the ratio of cashew nuts to peanuts in the mix?

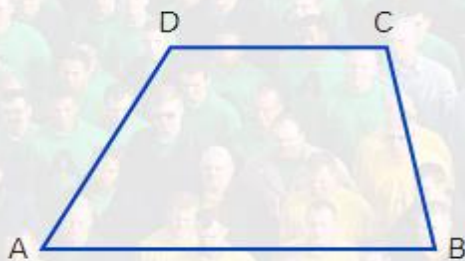
Optional extra maths lessons for the week:

Your Turn - Simple Ratios of Quantities



1. Share 50 in the ratio 2:3.
2. Share 800 in the ratio 9:7.
3. Share 40 in the ratio 1:3:6.
4. Share £770 in the ratio 4:7.
5. Share 1kg in the ratio 4:6.
6. Share 6m in the ratio 7:3:5.
7. Jolene makes a pattern out of beads. She uses only red and silver beads in the ratio 5:1. How many red beads will she need for a pattern with 30 beads in it?
8. Caron has a bag of 44 marbles. She shares them with Kelsie in the ratio 1:3. Caron keeps the larger share for herself. How many marbles does she give to Kelsie?
9. James makes pastry. He uses flour to butter in the ratio 2:1. The total mass of his pastry is 600g. What quantities of flour and butter did he use?
10. Zack and Kenny are waiters in a restaurant. The total amount of tips they receive at the end of the week is £126.90. Zack worked 5 nights and Kenny worked 4 nights. They decide to split the tips by the ratio of the nights they worked. How much do they get each?

Problem – solving-Ratio



The angles A, B, C and D are expressed in the ratio 3:4:5:6. Find the size of each angle.

Ali and Daniel share some sweets in the ratio 3:10. Daniel boasts that he got 21 more sweets than Ali. How many sweets did they each get?



Kingfisher Class Home- Learning- Summer 2- Week 3- English

Monday: To summarise a chapter

This starter is based on chapter 1 of King of the Cloud Forests by Michael Morpurgo



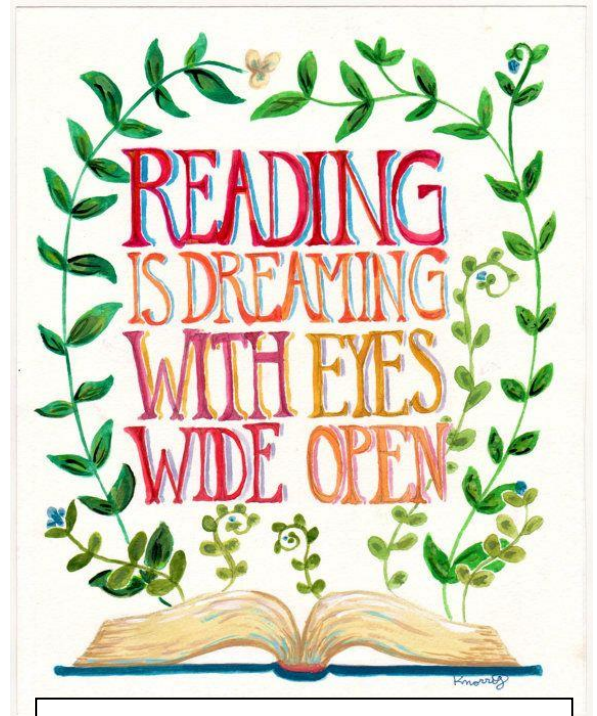
First Activity:

✚ Roll two dice, add the numbers together and write the total on a piece of paper. This is the number of full sentences you have to write. Your task is to write a summary of chapter one, can you do it?

✚ Before you begin your paragraph, re- cap on the key information from chapter one.

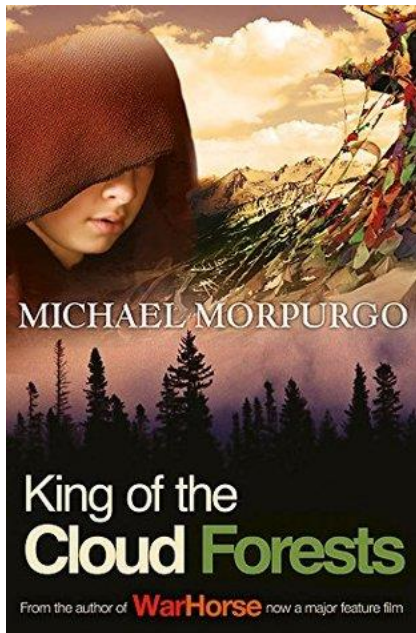
Second Activity:

- ✚ Read chapter two alone or read aloud to a family member (record in reading record).
- ✚ After reading the chapter: skim and scan to find out Ashley's feelings towards the Chinese Army doctor. Add thoughts onto your piece of paper (you can present this in any way you feel would suit this information).



Miss Brown's quote of the week





Tuesday- To explain why a character's feelings change throughout a chapter.

First Activity:

- ✚ Re-cap on Chapter 2 from yesterday.

Second Activity:

Today you will write a paragraph explaining how Ashley's feelings towards the doctor change in chapter two.

- ✚ You will need to include at least two pieces of evidence from the text to support your views.

- ✚ You can choose your own text type to present this information i.e monologue, diary entry, etc.

Third Activity:

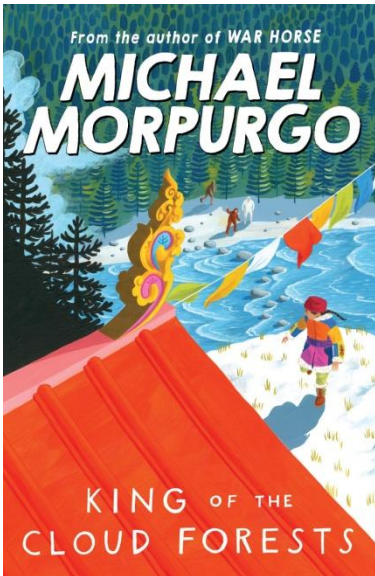
- ✚ Read your paragraph to a member of your family.
- ✚ Discuss the text type chosen and why it suited this information?

Show me the...

Evidence

Use the following to provide Evidence for your Reading Responses:

- Because...
- For instance...
- For example...
- The author stated...
- According to the text...
- On page ____, it said...
- From the reading, I know that...
- Based on what I read...



Wednesday - *To* draw a scene from the novel and annotate with evidence from the text.

Today's lesson is about chapter 2.

✚ Re-read chapter 2 and draw a picture of the final scene as Ashley and Uncle Sung leave through the gates.

✚ Annotate this drawing with at least **five handwritten** detailed notes and evidence from text.

Thursday: To identify the changes a character goes through in a chapter.

First Activity:

✚ Choose a comfortable and quiet reading space.

✚ Read chapter 3: independently or with someone (record in reading records)

Second Activity:

✚ How does the lead character make the transformation from Ashley Anderson to Zong Ho? Write a paragraph each describing how he changes:

- In the way he looks
- In the way he acts and behaves.



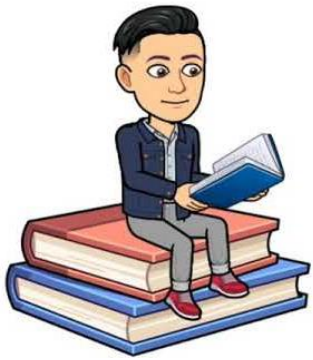
Friday: To visualise a character.

First Activity:

- ✚ Choose a comfortable and quiet reading space.
- ✚ Read chapter 4: independently or with someone (record in reading records)

Second Activity:

- ✚ Draw an accurate picture of a yeti using Uncle Sung's description.
- ✚ Underneath the picture write a short paragraph describing the Yeti, making sure you use **evidence from the text** to you.
- ✚ Share pictures with your family- have you missed anything? Have you annotated your picture correctly?



Kingfisher Class Home- Learning- Summer 2- Week 3- Foundation Subjects

Science - Refraction

Firstly, re-cap on last lesson, what do you remember and know about refraction?

Discuss with a family member.

Refraction Investigation

Have a look at each investigation and predict what you think will happen. Try to explain your prediction using your scientific knowledge and understanding.

Follow the instructions to set up each investigation.

Record what happens and say whether your prediction was accurate or not.

Come to a conclusion for each investigation, explaining what happened and why.



Incredible images experiment!

Draw a small picture on a piece of paper, for example a smiley face or star.

Then you will place an empty glass over the top of the picture, and look at your image through the side of the glass.

As you watch your picture, slowly fill the glass with water.

When the glass is full, you should cover the top of the glass with a saucer.

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!

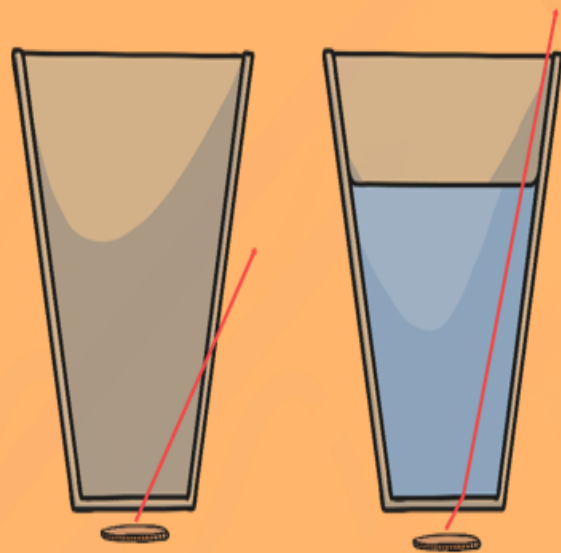
Do not read this unless you have completed experiment and write up...

Incredible Images: What Happened?

When you filled the glass with water and placed a saucer on top, the image seemed to have disappeared. Light rays falling on the image are refracted through the glass, then the water, then back into the air. When the refracted rays are bent at different angles by adding the water, it means they can be blocked by the saucer on top of the glass.

Since the rays of light cannot get through the saucer, they cannot reach our eyes and we cannot see the image.

It seems to have disappeared!



Topic- Geography

Use a map/atlas to label the following mountain ranges in Europe:
Pyrenees, Alps, Carpathians, Apennines, Urals, Balkan Mountains.



Extension Task:

Research where the highest peaks within Europe are located and label them on your map.

1. What colour are the mountains on your map?

2. How are the highest individual mountains shown on your map?

3. Write a list of the highest five mountains from highest to lowest.

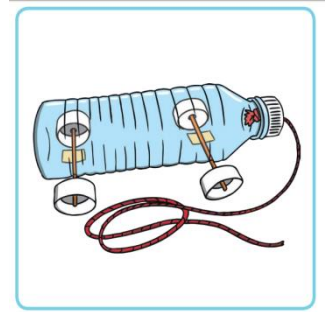
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4. Fill in the table below using a map to get the information.

Mountain Area	Continent	Mountain Name	Height
Andes Mountain		Anconcagua	
	North America		4399
		Mt. Everest	
Pyrenees		Pic De Aneto	
Alps			4807
Great Dividing Range	Australasia		2209
		Mt. Elbrus	
Ethiopian Highlands			4307

DT- Continue lesson from last week- Recycled Plastic Bottle

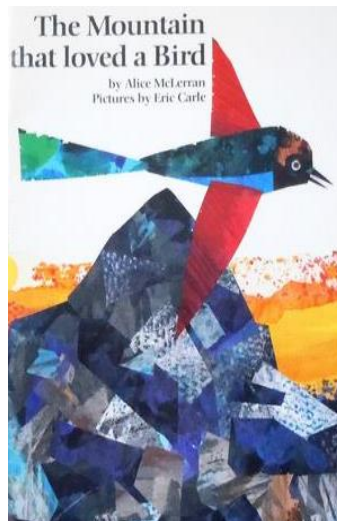
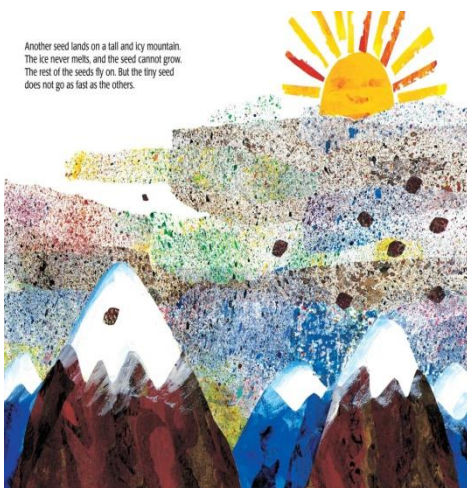
Car-



- ✚ Please take a picture and email me your final product on Purple Mash
- ✚ Also, include a small evaluation and a rating out of 10 for your new toy.

ART-A step on from last week's Art lesson.

- ✚ Re- cap on last week's lesson- who were we inspired by? How was this artist famous? What type of art made him famous? What techniques did he use in his art?
- ✚ After your amazing creations from last week and the new collage skills you have developed, I think we should take it to the next level and create a mountain landscape collage. This is inspired by Eric Carle from the illustrations below. You do not have to re-create his pictures; you can be as creative as you like but please follow the same technique as last week and involve mountains in your picture. I cannot wait to see them! Please upload a photo on 2email on Purple Mash, as I have really enjoyed seeing your learning from this term.



You will need: Paper, paints, cardboard, string, glue, scissors, paint brushes, tools: such as a fork, an old toothbrush, etc and newspaper to keep everything clean and tidy! Don't forget to wear an apron too! Remember it is your job to clean up after, so keep it tidy! ☺



RE

✚ Please choose a Christian church to look at in more detail. This could be Preston Candover church or your local church both from the outside of the church and online.



✚ In the building, contains different features of symbolism and specialness. I would like you to draw at least one feature from a Christian church and write why you think it is special to people and what the feature symbolises.



PE

Healthy Hearts

Home Physical Education

Can you complete the circuit with a partner, encouraging each other?

How to play:

- Layout 5 markers in a space around your area. These are your 5 cardio circuit activities.
- **Station 1:** Perform 10 star jumps.
- **Station 2:** Perform 10 mountain climbers.
- **Station 3:** Skip or jump for 10 seconds.
- **Station 4:** Perform 10 burpees.
- **Station 5:** Jog on the spot for 10 seconds.
- How many times can you repeat the circuit?



Can you keep trying even if you feel tired?

Top Tips

Break into a sweat!

When we increase our heart rate, more blood pumps around our body providing oxygen from the lungs to the muscles.

Let's Reflect

Were you able to work hard and increase your heart rate?

Do you understand why it is important to raise our heart rate and keep active?

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

Last week, we looked at being brave, through a song, looking at our own experiences and creating our own brave cartoon characters. This week I want you to focus on the word 'bravery'.

- ✚ Can you create a list of nouns and adjective related to everyday bravery?
- ✚ Can you write an acrostic poem where the first letters of each line spell a word or message from the word bravery? Just like the acrostic poem below:

A form of poetry
Carefully pick your words
Rhyming or not
Oh what fun!
Subject is vertical
Think of how to describe it
I love writing!
Cool idea

Music

<https://www.thenational.academy/year-5/foundation/to-identify-pulse-and-rhythm-in-music-year-5-wk4-5#slide-2> - Please follow this link to your Music lesson for this week- I really enjoyed the teacher playing the violin, I hope you do too



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 than 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 ☺