Year 5 Home Learning

Term 2

Weekly challenges:

Reading Challenge	Times Tables	Spelling	Maths
Make sure you read at least five times a week at home to be entered into the reading pond! We're practising the skills of predicting and summarising. Using a book of your choice, practise writing predictions before reading each chapter and then summarising it when finished. Compare your predictions to your summaries: were you close?	Practise your target times table: ___ Ideas: count up and down in your target times table; practise writing it forwards and backwards; ask a friend or family member to test you; practise division facts. Remember, get on TT Rock Stars every day! Can you earn 50 points in studio a day?	Spellings for this term: lightning, harass, marvellous, immediate, bargain, bruise, thorough Try some of the following strategies: **Look, cover, say, write, check** **Word pyramids** **Draw pictures to remind you of tricky spellings** **Mnemonics**	Each Wednesday, I'll set you a Purple Mash maths activity to complete. It will be linked to what we are learning that week, so show off what you know!

Challenges for Term 2 – complete 6 of these activities to earn a home learning certificate.

English	English	Maths	Maths
This term we're learning about **parenthesis**: using brackets, commas and dashes to add extra detail to sentences. For example: **The River Nile (the longest river in the world) runs through Egypt.** Write 10 sentences about rivers. In each sentence use brackets, commas or dashes to add extra details.	Use this picture to inspire you to write. The genre of your writing is entirely up to you. It must include: capitals, correct punctuation and adjectives. Can you include parenthesis too?	**River lengths** Find the lengths of these rivers in kilometres: **River Thames: _____ km** **River Nile: _____ km** **Yangtze River: _____ km** **Mississippi River: _____ km** Choose challenge 1, 2 or 3 to complete on the next page.	**Perimeter** Solve the perimeter problems on the next page. Choose challenge 1, 2 or 3 to complete.

Topic	Topic	Science	Mindfulness / Well-Being
  This term, our topic is Rivers. Can you make a shoebox model of a world river? Examples could include the Thames, the Nile, the Amazon or the Volga.	**Dams of the world** Conduct your own research into dams around the world. Write a report about your findings. Here are some ideas to get you started: **What is a dam?** **How are they used to create electricity?** **What are the pros and cons of building dams?** **Where can dams be found around the world?**	**Properties of materials** We're learning about mixing and separating materials in Science. Some of these changes are reversible and some are irreversible. Mix some materials at home and decide whether the changes are reversible or irreversible. Examples: gravy granules and milk; bubble bath and water; squash and sugar. **Only use materials your parents have given you.** Write up your findings in a report.	Here are some ideas to help you with your mindfulness: Take time to meditate every day. Sit quietly, close your eyes and imagine your favourite place to be. Just sit, and imagine you are sitting in that place. What would you hear? Listen to your favourite song. Listen to the rhythm of the music and the words. Create a piece of art to represent that music

| Maths - River Lengths		
Challenge 1	**Challenge 2**	**Challenge 3**
1) Put the rivers in order from smallest to largest 2) What is the total length of the River Nile and the Amazon River? 3) What is the difference in length between the River Thames and the Yangtze River?	1) Convert all the river lengths to metres. 2) A traveller walked along both the Nile and the Thames from source to mouth. How far did he walk altogether? 3) What is the difference in length between the longest and shortest of the four rivers?	1) Convert all the river lengths to metres. 2) A traveller walked along all four rivers from source to mouth. How far did he walk in total? 3) Due to river construction work, the length of the Amazon was reduced by half the length of the Thames. How long would the Amazon be?

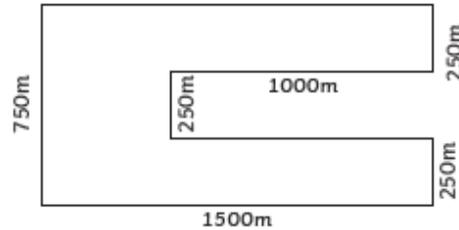| Maths - Perimeter		
Challenge 1	**Challenge 2**	**Challenge 3**

1) a) Use the labelled sides to find the length of the unlabelled side on each of these shapes.

b) Calculate the perimeter of each shape.

40m

60m

100m

100m

40m

_____

1cm   1cm

3cm   3cm

5cm   5cm

4cm
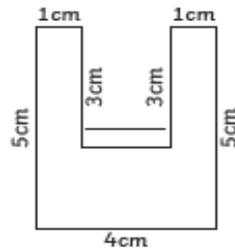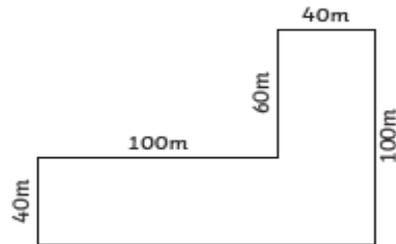
1) Toby says, "This shape has a perimeter of 4000m."

750m

250m

1000m

250m

250m

250m

1500m

a) Explain his mistake.

b) Calculate the correct perimeter.

2) Are these statements true or false? Explain how you know.

a) A rectangle with sides 2cm and 8cm, will have the same perimeter as a square with 5cm sides.

b) A long, thin rectangle will always have a longer perimeter than a shorter, wider rectangle.

c) If you put a square with sides of 4cm and a square with sides of 6cm side by side on a straight line, they make a rectilinear shape with a perimeter of 40cm.

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1) a) Use these shapes to create a compound rectilinear shape on your squared paper.

5cm

4cm

2cm

3cm
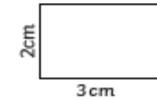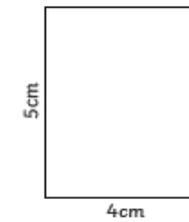
(Shapes are not drawn to scale.)

2cm

9cm

b) Amma says, "I can rearrange the rectangles to make a new shape with a different perimeter."

Is she correct?

Prove It!

2) a) How many different rectilinear shapes, which are not rectangles or squares, can you make that have a perimeter of 42cm?

b) Tarj thinks that adding one more square to all of the shapes he has drawn on centimetre squared paper with perimeters of 42cm will change them into shapes with perimeters of 45cm. Is he right? How do you know?