

Home learning target: 5

## Year 6 Home Learning

Reading pond target: 25

### Term 4

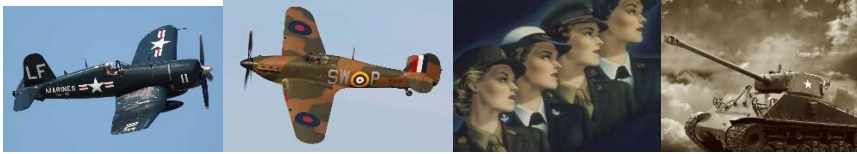
#### Weekly challenges

Reading Challenge	Times Tables	Spelling	Maths
<p>Make sure you read at least five times a week at home to be entered into the reading pond!</p> <p>We're improving our comprehension skills, especially the skill of inference. We are also looking at how we can use Point Evidence Explain, when answering questions about a text. Using a book of your choice, practise inferring what a character may be thinking or feeling. What is your evidence for this? What words lead you to think this?</p>	<p>Practise your target times table set for you on TTRS.</p> <p>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.</p> <p>Remember, get on TT Rock Stars every day! Can you earn 50 points in studio a day?</p>	<p>relevant, parliament, government, signature, sacrifice, guarantee, equipment, secretary, communicate, committee, interrupt, prejudice</p> <p>Try some of the following strategies:</p> <p><b>Look, cover, say, write, check</b></p> <p><b>Word pyramids</b></p> <p><b>Draw pictures to remind you of tricky spellings</b></p> <p><b>Mnemonics</b></p>	<p>Each Monday, 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!</p>

Challenges for Term 4 - complete 5 of these activities to earn a home learning certificate.

English	English	Maths	Maths
<p>Read a book set during WW2. We have lots in our book corner. E.G. Rose Blanche; Goodnight Mr. Tom; Waiting for Anya; Carrie's War; Woeful second World War (Horrible Histories);</p> <p><b>Challenge:</b> Illustrate a new book cover for your choice.</p>	<p>Write a diary entry from point of view of child/teacher linked to evacuation.</p>	<p>Draw a pie chart to illustrate the content of common chocolate bars. (Note that fat and carbohydrate quantities are often subdivided into saturated/unsaturated and sugars/starch, so you have to be careful not to add these subdivisions to the total and end up with more than 100 g.) Ask: which bar is "healthiest"? Is there much difference between them? How do their prices compare with what's in them? If you spend more, do you get a healthier product or just a tastier one, or neither?</p>	<p>Try the ratio problems and the fraction, decimal, percentage problems overleaf. Then, learn by heart the conversions between percentages, decimals and fractions. Can you create a rhyme? Can you create a poster? Can you create a visual image?</p> <p><b>Challenge:</b> Show some examples of calculations and write your own word problems.</p>
Topic	Topic	Science	Mindfulness / Well-Being
<p>Draw and label your favourite aeroplane; tank; a service man/woman; WW2 item. Explain its role in the war.</p> <p>Consider how to ensure accuracy in your drawing. Remember to include the finer details.</p>	<p>Investigate the everyday household jobs during 1939-1945 and how they have changed in modern times.</p> <p><b>Challenge:</b> Explain the ways and reasons why modern living has or hasn't become easier.</p>	<p><b>Create your own test</b></p> <p>Make a model aeroplane of your own design. Throw it and see how far it goes (taking careful measurements). Consider different ways to impact the flight of your plane. Do you want it to go further? Do you want it to go higher/lower?</p>	<p>Do 5 things that help people, without expecting any reward or praise. How does it make you feel to help someone just to help them, not to gain something back?</p> <p><b>Challenge:</b> See if you can get someone else in your family to do 5 things also.</p>

## Examples for the Topic drawing:



## Science paper aeroplane ideas:



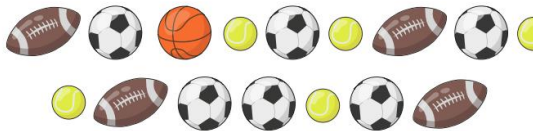
## Fractions, decimal and percentages **Maths Challenges**

3) The ratio of tea cups to cakes in a café is 3:5. Here are the tea cups.



Draw the cakes.

2) Write down the ratio of:



Footballs to basket balls. \_\_\_\_\_

Tennis balls to rugby balls. \_\_\_\_\_

Rugby balls to footballs. \_\_\_\_\_

Basket balls to footballs to tennis balls. \_\_\_\_\_

### EQUIVALENCIES

PERCENTAGES (out of one hundred)	DECIMALS	FRACTIONS
60%	= 0.6	= $\frac{60}{100} = \frac{3}{5}$
25%	= 0.25	= $\frac{25}{100} = \frac{1}{4}$
72%	= 0.72	= $\frac{72}{100} = \frac{18}{25}$

1) Compare these values using either the greater than, the less than or the equals sign.



$\frac{1}{2}$   60%  0.3   $\frac{1}{5}$

30%  0.25   $\frac{2}{8}$   0.17

71%   $\frac{2}{3}$   0.65   $\frac{1}{2}$

2) In the class library, 0.13 of the books are dictionaries or thesauruses. The remaining books are either fiction or non-fiction. 44% of the books in the library are fiction.

Are there more fiction or non-fiction books in the library?

Explain your reasoning.

3) In key stage 2,  $\frac{11}{50}$  of the children have black hair; 0.4 of them have brown hair; 16% have ginger hair. The rest have blonde hair.

a) Which hair colour is there the least of in KS2?

- 1) Jack has 100 marbles.
- $\frac{7}{20}$  of the marbles are red.
  - 12% of the marbles are yellow.
  - 0.18 of the marbles are green.
  - $\frac{1}{5}$  of the marbles are blue.
  - The rest of the marbles are pink.



There are fewer pink marbles in the bag than any other colour.



Is Jack's statement correct? Explain your reasoning.

2) Here are three riddles.

#### Riddle A

As a percentage, I am a whole number with an even tens digit and an odd ones digit.  
As a simplified fraction, my denominator is 4.

#### Riddle B

As a decimal, I am repeating.  
As a percentage, I am between 20% and 50%.  
As a fraction, both my numerator and denominator are less than 5.

#### Riddle C

In percentage form, I am a whole number that is a multiple of 10 with an even tens digit.  
In simplified fraction form, the difference between my denominator and numerator is 1.

I think the answer to riddle C has the greatest value.



Do you agree?

Explain your reasoning.