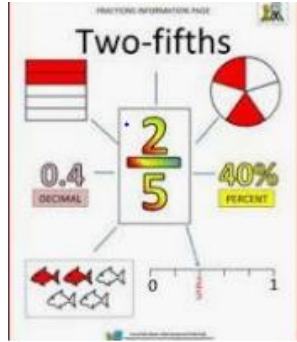


**Maths**

**Challenge 1: Converting decimals/percentages and fractions**

Use the bus stop method to help convert between fractions and decimals.



Now can you try some trickier fractions to convert?

- 5/9
- 4/7

**Challenge 2 – Frog and Toad investigation**

**Problem:** Make all the frogs and toads swap places. Move all the green frogs so that they swap places with the brown toads. **Use the fewest number of moves possible.**

**Rules** - Only one frog or toad may sit on a lily pad at any one time  
 -Only one frog or toad may move at a time  
 - A frog or toad can only move in one direction, towards the end it is going to. No backwards moves!

- A frog or toad may move in only two ways;
  - Slide onto an empty lily pad next to the one it is currently sitting on



- Jump onto an empty lily pad over one different kind of creature; A frog can jump over one toad, a toad can jump over one frog.



Frogs and toads	Moves
2	
4	
6	
8	
10	

**Challenge 3 – magic square**

A magic square is one where all rows, all columns and both diagonals have the same total. The total is called its magic number.

10	9	5
3	8	13
11	7	6

The magic number for this square is 24.


1 2 3 4 5 6 7 8 9

The magic number this time is 15.

Can you make some different magic squares for members of your house to solve?

**Writing**

Use the story starter below to complete a story about the picture.

*'I pushed open the old creaky door and looked inside.*

*What a sight met my eyes!...*

**Challenge:** Can you include expanded noun phrases, relative and subordinate clauses and if possible a passive sentence?



**Spelling - tion, cian and sion words**

- solution
- attraction
- musician
- electrician
- optician
- compulsion
- version
- repulsion

Try writing these words in sentences.

Can you create a definition for each word?

**Reading**

Read this poem called 'What Are Heavy?' by Christina Rossetti.

For each of her 4 questions explain why those things could be answers.

Why do you think Rossetti uses physical objects (e.g. sea-sand) and emotions (e.g. sorrow) to answer the same question?

Write your own question and answer poem. Justify why you have used the answers you did.

**What Are Heavy?**

*What are heavy? Sea-sand and sorrow:*

*What are brief? Today and tomorrow:*

*What are frail? Spring blossoms and youth:*

*What are deep? The ocean and truth.*

**Flashback**

Remember our first vehicle 'Rollercoasters'? We'd love you to do something about it again. Design a leaflet/poster explaining how a rollercoaster works. Can you include some of the technical vocabulary?

**Technical Vocabulary**

- Kinaesthetic energy
- Friction
- Air resistance



**Weekly Learning Project**

Have a go at creating an art piece to either show a positive message or thank the NHS using items that would normally be found in the recycling bin. The item can be something for inside the home or something that would be suitable for the garden. Write a caption to explain the message. We would love to see pictures of these so we can share them on our school website and Facebook page!

Create your own 'Take 5' breathing technique at home and share it with your family.