



Rollercoaster Tycoon: Feel the Force

Hello Year 6! We hope you are all well and safe.

Remember to send your wonderful home learning and fun activities that you do to: year6@swaythlingprimary.org. Don't forget we are setting weekly tasks on Manga High, Education City and My Maths too and you also still have access to Timetable Rockstars!

Miss Evans's Week:

This week I have done a lot more running and I've still been doing Joe Wicks PE and going for walks. Miss Bowen and I went for a walk on Thursday and got caught in the rain, we were completely soaked through! I also went to Lee-On-Solent beach and had the biggest ice cream ever, hopefully the sun stays out so I can have some more!



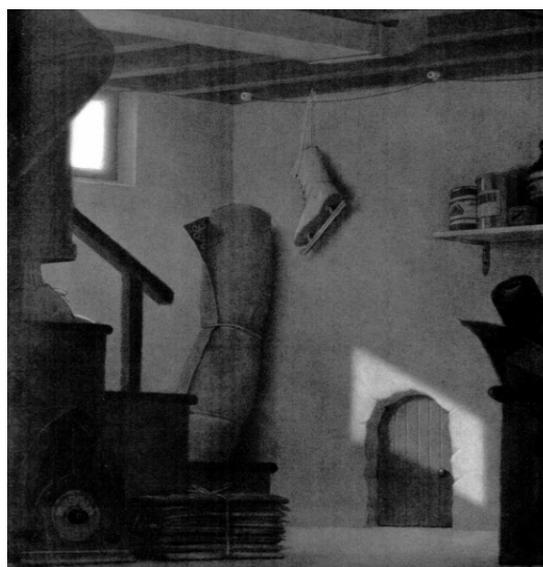
Mrs Cleghorn's week

This week I have been keeping up with my daily fitness with Joe Wicks and our family walks. We went into the stream by the lake as it was so hot and we wanted a cool down. I made my dad some chocolate muffins for Father's Day and the girls and I made my husband a banoffee pie. We also had a very cool visitor come into our garden at the weekend – a very large stag beetle!



Activities to do:

1. Can you design a theme park for your ride from last week to go in? You will need to think about – the rides (for all ages), cafes/restaurants/food outlets, shops, toilets, other facilities e.g. seating areas, soft play etc.
2. Have a go at the science experiment below – Water Resistance 2.
3. Can you write a description of who or what you think is behind the door.
4. Here is a Kahoot Quiz of the Year with questions about what we have learnt this year! It is available to play until Wednesday 1st July at 3pm. Can you come first?! The link is: https://kahoot.it/challenge/09156140?challenge-id=17edd68d-e8b9-4388-820e-d8d8690e4338_1592929151120 or you can just put the pin into the kahoot website which is: 09156140.



Uninvited Guests

"His heart was pounding. He was sure he had seen the doorknob turn."

Experiment

Instructions:

1. Fill the containers with an equal amount of water.
2. Cut three equal sized pieces of aluminium foil. Shape one into a ball, keep one flat and slightly crumple the third piece.



3. Place one into each container and observe what happens.
4. Next, fold stones into each of the different pieces of aluminium foil in various different ways to see which combination will allow for fastest sinking time and what shape will float.



5. Can you experiment with aluminium foil boats. What shape will take the most stones and still stay afloat?

Two forces are at play in this experiment – gravity is pulling things down in the water and buoyancy pushes upwards against gravity. Different objects behave differently in the water depending on their density. A crumpled ball of foil has more density because all of its weight is concentrated in a small surface area. The foil boats have a larger surface area and is less dense, therefore can float with objects that would normally sink on their own i.e. the stones.

You will need:

- Glass cups/vases or jars
- Aluminium foil
- Stones
- Stopwatch

Remember to work out the average you need to add up all the times you have recorded (from the 3 tests) and then divide it by the amount of drops you did (3).

Prediction:				
<u>Variables we kept the same:</u> •			<u>Variable we changed:</u> •	
Shape of foil	Test one	Test two	Test three	Average
<u>Conclusion:</u> What did you notice from the experiment? Which shape sank the fastest? Which boat held the most stones?				