

## Tides of Change Homework Grid

Children can choose a piece of homework they would like to focus on each week. They do not have to do ALL of the tasks, just a minimum of one per term. They can choose to record in their book, send in photos or bring the homework in to show.

Research Broadstairs history. How has Broadstairs changed over time? Present your findings in any way you choose.

Create a crossword using key vocabulary on Forces. Force, Gravity, Mass, Weight, Friction, Resistance, push and pull, attract, measure.

What are windfarms? Write a persuasive argument about wind farms and their positives on the environment.

Research the biography of Isaac Newton. What theory did he discover? Present this in an interesting way

Draw a sketch of Broadstairs coastline. Label the key geographical features.

How does the moon affect the tides? Write an explanation.

Create a poster to celebrate Thanet and the things you can do here.

Create a piece of artwork to celebrate Ramsgate harbour. It can be in any medium you choose.

Research Ramsgate's involvement in the Dunkirk evacuation. Create a news report to present your findings.

Paper helicopter investigation. Use your knowledge of air resistance and gravity to create a paper helicopter that will fall as slowly as possible. Record the timings on a chart or graph.

Write a comparison to life in Victorian Ramsgate to modern day life. You could present in a list, two columns, pictures or data.

How do surfaces affect friction? Move an object across different surfaces and record your findings. Which surface is fastest and why?

Investigate different swimming styles used by professional swimmers. Can you explain why some techniques may be faster than others.

Make a parachute using different material and describe how gravity and surface area affect their landing? You need to drop the object from the same height for a fair test.

James Dyson was the inventor of which appliance and how did he get his idea?