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| **Topic** | **Homework Grid -Summer Term - 2024 - ‘Feel the Force!’** | | |
| **English and Communication** | Create a crossword using key vocabulary on Forces.  Force, Gravity, Mass, Weight, Friction, Resistance, push and pull,  attract, measure. | Research the biography of Isaac Newton. What theory did he discover? Present this in an interesting way. | Write a short story about an astronaut stepping on the moon and discovering the effects of no gravity in space. |
| **Maths and Problem Solving** | 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. | Create your own maths word problems using the 4 different operations.  Four Operations Vocabulary Cards | Using the knowledge of FRACTIONS form Spring 1. Create a sheet to explain the different strategies you have learnt. |
| **Science and the outside environment** | 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.  Make a Paper Towel Parachute | 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. |
| **DT and Art** | What are gears and how do they work?  Find objects around your house that use gears make things move in different directions, more quickly or slowly. | James Dyson was the inventor of which appliance and how did he get his idea? | Find examples of how a pulley can make it simpler for humans to move objects. |

**Early Islamic Civilisation Home Learning Activities**

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| **Science**  Experiment with chocolate, coffee and ice. With an adult heat or cool these and see if it creates reversible or irreversible changes. Take a photo and write about what you find out. | **History**  Use the link to the website below to help you to find out about Baghdad in 900AD. Create a multiple choice quiz for your friends. <https://www.youtube.com/watch?v=WVM1xEdp83Q> | **Geography** Research in which countries Islamic civilisation  developed and label these countries on a world map. | **Art** Investigate Islamic Art patterns and try drawing some. |
| **DT**  Use resources to create coins similar to those in the early Islamic Civilisation era. | **Computing**  **Create your own Podcast.** Make up some questions about a subject your family is interested in – the development of maths and science during the 7th century under the Islamic Civilization, the devastation of the  rainforests, the threat of global warming…  Ask a member of your family or a friend if you can interview them. Record the interview on to the computer (or phone). Listen to the interview – how could you improve the questions you  ask so that you get more interesting answers? | **RE**  Research about the Mosque. Find out the key features and what takes place there. Create a poster to display what you have found out. | **PSHE**  Watch Newsround, write your own version of a news story that interested you.  Image result for newsround |