



Stargazers Homework Matrix



Over the next term, Year 4 & 5 will be learning about Space and the Solar System.

In the grid below, you will find many interesting activities for you to complete at home. Choose one activity each week to complete in your homework book. Your book will need to be returned to school **every**

Wednesday for the class reflection time where homework will be displayed and shared with class peers.

<u>Science and Technology</u> Read information online or in books about forces and gravity. Then, design a simple experiment to investigate the question: Does a heavy object fall to the ground quicker than a lighter object? Remember to think about how you will ensure that your experiment is a fair test. Choose an appropriate way to record your findings.	<u>Mathematics and Numeracy</u> Use a range of sources to find out about the planets in our Solar System, such as their diameter, position from the Sun, number of moons, day length, year length and type, for example gaseous or terrestrial. Record your results in a table like the one below. <table><tr><td>Planet</td><td>Fact</td></tr></table>	Planet	Fact	<u>Expressive Arts</u> Design and create an astronaut space helmet or alien headwear using junk materials.	<u>Mathematics and Numeracy</u> Before clocks and watches were invented, people used sundials to measure the passage of time. Make a shadow clock or sundial, using instructions found online.
Planet	Fact				
<u>Science and Technology</u> Find out about the following types of moon: blood moon; supermoon; blue moon and harvest moon. Why have they been called this? When do they happen? How often can you see a moon like that?	<u>Science and Technology</u> Keep a Moon diary. Draw the shape of the Moon each night, finding out and recording the correct term for each lunar phase.	<u>Literacy, Languages and Communication</u> Find out about a significant space scientist and write a biography or fact file about their life and work. Examples include Claudius Ptolemy, Ibn al-Haytham, Edwin Hubble, Stephen Hawking or Mae Carol Jemison.	<u>Science and Technology</u> Use non-fiction books, astronomy magazines and the web to find and record amazing facts about space.		
<u>Literacy, Languages and Communication</u> Imagine... an alien space ship has crash landed in your back garden. Write a story about what happens next. You may want to borrow ideas from space stories or films you know well. Remember to use powerful vocabulary to bring your story (and your alien) to life!		<u>Science and Technology</u> Create a Powerpoint based on the astronauts who visited the Moon. Find out their names, insert pictures and record interesting facts about them.	Finish your home learning by writing a summary of the topic, explaining what you have learned about space, our Solar System and forces.		