



THE GREAT CURIOSITY PROJECT
Our World and Beyond





Curiosity about our world and beyond

This week, we will be thinking about our world and beyond, pondering over some of the big questions we may not have the answers to as well as exploring and investigating to gain a better understanding!

We have divided this topic into 5 themes, one for each day, and each theme has a page of questions to think about, a page of activities to select from as well as a page of weblinks to help you delve deeper! By all means, if you want to adapt our ideas and devise your own tasks, please do so. We hope you enjoy this opportunity to ask and answer those questions you've often wondered about!

Curiosity about our world and beyond

This week, you will explore:

Monday

Where in the
World?

Tuesday

Water, Water
Everywhere

Wednesday

Our Natural World

Thursday

The Past, the
Present and the
Future



Friday

Our Solar System
and Beyond

Westfields
JUNIOR SCHOOL

DAY 5

Our Solar System and Beyond



For our final day, we will be travelling further afield by exploring our solar system and beyond. As you now know, planet Earth has been in existence for around 4.54 billion years but did you know our solar system is approximately 4.57 billion years with our universe said to be 13.7 billion years old? Today, you can spend the time to find out how scientists know that, find out about all the discoveries that have been made in our solar system and beyond and learn about space exploration!

Have you ever wondered?

What colour are stars?

How long will the Sun shine for?

Our Solar System...and beyond!

How many different types of exoplanets have been discovered so far?

What is a blackhole and how are they formed?

What would life be like living on Mars?

What would happen if the Moon vanished?

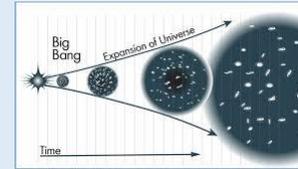
How many different things have been launched into space?

Create a timeline of space exploration. What has been sent up into space? Can you find out some unusual facts?



Research the planets in our solar system and either create a model, poster, PowerPoint or fact-file.

Research the Big Bang Theory and record your ideas using PowerPoint or information page.



In a few years, humans will be landing on Mars. Write a packing list of 15 things that someone would need to take with them.



Research constellations and then select your favourite one and try to draw its shape. Can you also draw the object, person or animal it represents?



Research the 1969 Moon landing. Imagine you are Neil Armstrong, Buzz Aldrin or Michael Collins and write a diary for the launch, landing and return from one of their perspectives.

Research galaxies and information about our Galaxy, the Milky Way. Create a galaxy in a bottle.



Research Felix Baumgartner and watch his record breaking space jump.



Make your own satellite and decide what mission it should go on. Where will it go and what information should it collect?



Design, plan and make a moving rover that is fit for space exploration on Mars or design, plan and make a rocket to take you to Mars. How do you power it so that it takes off?



The artist Peter Thorpe creates space themed paintings. Create a Peter Thorpe rocket inspired piece of art using any medium of your choice.



Many men and women from around the world have ventured into space. Some have visited the ISS, some have been to the moon and some have just orbited the Earth and then returned. Create a non-chronological report or fact-file about someone who has gone to space.

Interested in learning about our universe?

<https://www.ouruniverseforkids.com/>

Visit a virtual planetarium and see what is happening in our sky this week

https://www.youtube.com/watch?v=oa8Z1_80fl4&list=PLp7zvH4n9k_LnZ7fwolyXNjy6yyx6vDaM

The sky tonight

<https://www.schoolsobservatory.org/learn/astro/nightsky/maps>

Find out about Felix Baumgartner's record breaking space jump

<https://www.youtube.com/watch?v=mJxsj51d-Pk>

One of Mr Chaplin's favourite videos

<https://www.youtube.com/watch?v=GoW8Tf7hTGA>

Want to explore constellations?

<https://www.dkfindout.com/uk/space/constellations/>
<https://www.ducksters.com/science/physics/constellations.php>

Interested in making a rover?

<https://spaceplace.nasa.gov/mars-rovers/en/>
<https://www.funkidslive.com/learn/deep-spacehigh/destination-mars/designing-mars-rover/>
https://www.sfi.ie/site-files/primary-science/media/pdfs/col/dpsm_paper_rocket.pdf

Find out about astronauts in space

<https://www.ouruniverseforkids.com/astronauts/>
<https://www.ducksters.com/science/physics/astronaut.php>
<https://www.nasa.gov/astronauts>

Keen to know more about Mars?

<https://www.jpl.nasa.gov/edu/learn/tag/search/Mars>
<https://mars.nasa.gov/mer/>
<https://mars.nasa.gov/mro/>
<https://www.youtube.com/watch?v=FYU-N2RWfso>

Want to watch Professor Brian Cox?

<https://www.bbc.co.uk/programmes/p07922lr>

Want the answers to key questions about Earth and Space?

<https://www.bbc.co.uk/bitesize/topics/zkbbkqt>

Interested in Tim Peake?

<https://timpeake.esa.int/>
<https://www.bbc.co.uk/newsround/42283275>
<https://www.bbc.co.uk/bitesize/topics/zgwxfg8/articles/zjk48xs>