

Welcome to Autumn 2!

This term we will be focusing home learning on 'Space'. This will help consolidate the learning taking place in school.

All pupils must complete the tasks by Monday 18th December 2023.

All pupils are expected to do the following weekly set task alongside:

- ✓ **Daily reading—The expectation is that your child will read daily for a minimum of 20 minutes at home – using the online 'Boost' programme.**
- ✓ **Weekly maths – My Maths home learning tasks, maths games and activities on OneNote**
- ✓ **Weekly Spellings – see below**

Education must develop every child's personality, talents and abilities to the full (UNCRC Articles 28 & 29). We can't wait to see what you do and look forward to seeing your wonderful home learning.

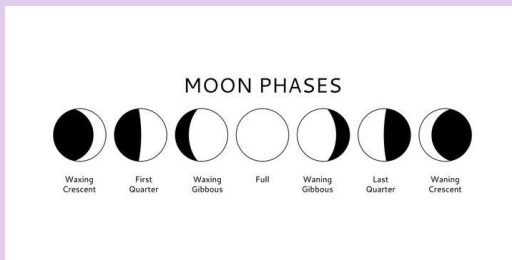
Yours Sincerely,

Year 5 Team

Focus – Space

Some facts about Space:









- **Solar System Centre:** The Sun is the centre of our solar system, and everything, including the planets, revolves around it.
- **Planet Lineup:** The eight planets in our solar system, in order from the Sun, are Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
- **Small but Mighty:** Earth is the only planet known to support life, and it's just the right distance from the Sun to have liquid water.
- **Moon's Phases:** The Moon has different phases like crescent, half, and full. These phases happen as the Moon moves around the Earth.
- **Space Rocks:** Asteroids are rocky objects that orbit the Sun, and comets are icy bodies that also move in space.
- **Gigantic Stars:** Some stars are way bigger than our Sun. For example, Betelgeuse is a supergiant star in the constellation Orion.
- **Galactic Collection:** The Milky Way is our galaxy, and it contains billions of stars, including our Sun.
- **Space Travel:** Astronauts need special suits because there's no air in space, and they live and work in space stations like the International Space Station (ISS).



More information

- **The Hubble Space Telescope:** The Hubble Space Telescope is an amazing tool in space that takes beautiful pictures of galaxies, nebulae, and other far-off objects. It orbits Earth and helps scientists learn more about space.
- **Mars:** The Red Planet: Mars is often called the "Red Planet" because of its reddish appearance. It's the planet that scientists are most interested in exploring, and it has been visited by several robots and rovers.
- **Astronomy at Home:** You don't need a fancy telescope to enjoy space. You can stargaze from your own backyard! Look for constellations, track the Moon's phases, and spot planets like Jupiter and Saturn with just your eyes or simple binoculars.

Key Vocabulary and definitions linked to Space

Word	Definition	Word	Definition
 <i>astronomy</i>	The scientific study of the stars, planets, and other objects in the universe.	 <i>orbit</i>	The path that an object takes as it revolves around another object in space, like the way planets orbit the Sun.
 <i>asteroid</i>	A small, rocky object that orbits the Sun and is often found in the asteroid belt between Mars and Jupiter.	 <i>gravity</i>	The force that attracts two objects with mass towards each other; it's what keeps us and everything on Earth on the ground and the planets in orbit around the Sun.
 <i>nebula</i>	A large cloud of gas and dust in space, where new stars are born or where old stars explode.	 <i>satellite</i>	An object that orbits a planet, moon, or star. Natural satellites include moons, and artificial satellites are created by humans for various purposes, like communication or Earth observation.
 <i>constellation</i>	A group of stars that form a recognisable pattern or shape in the night sky, often named after mythological characters or objects.	 <i>telescope</i>	An optical instrument that magnifies distant objects, allowing us to see stars, planets, and other celestial bodies more clearly. Telescopes come in different types, such as optical, radio, and space telescopes like the Hubble Space Telescope.

Home Learning Tasks

Week 1

Article 28 Every child has the right to an education. Primary education must be free. Secondary education must be available for every child. Discipline in schools must respect children's dignity. Richer countries must help poorer countries achieve this.

Reflection - Write a paragraph about why going to school is important. Share one thing you love to learn at school and why it's fun.

Project: Create a poster about the solar system. Include information about the planets, their order from the sun, and some interesting facts about each planet.



Resources-

- [NASA's Solar System Exploration](#)
- [Planets for Kids](#)
- [National Geographic Kids - Space](#)

Another way of presenting this is that you could work with tactile materials like clay, foam, or Play-Doh to sculpt the planets. You can use textures or colours to differentiate the planets.

Week 32

Article 15 Every child has the right to meet with other children and to join groups and organisations, as long as this does not stop other people from enjoying their rights.

Reflection - Share a story about a time when you and your friends worked together on a project or played a game. How did it make you feel to work and have fun together?

Project: Craft a 3D model of the Earth and Moon to scale. Explain the phases of the moon and why they occur.



Resources –

- [NASA's Moon for Kids](#)
- [Earth and Moon 3D Models \(to print or view\)](#)

Another way of presenting this is that you could create a tactile 3D model of the Earth and Moon with raised textures. You can also use textured paper or fabrics to represent the phases of the moon.

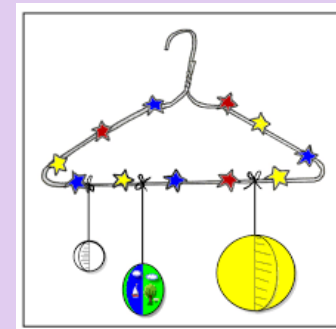
Week 33

Article 6 Every child has the right to life. Governments must do all they can to make sure that children survive and develop to their full potential.

Reflection - Write a short letter to a friend, telling them how you stay healthy and happy. What are your favourite healthy activities or foods?

Project: Make a mobile or a model of the Sun and its position in our solar system. Research a famous star and create a fact sheet about it.




You may want to include star name, star information, where to find it, interesting fact and picture or illustration.



Resources-

- [NASA's Solar System Exploration - Sun](#)
- [Star Formation and Types](#)

Another way of presenting this is that you could build a simple tactile model of the Sun using craft materials with textures.

Week 4	Week 5	Week 6
<p>Article 31 Every child has the right to relax, play and take part in a wide range of cultural and artistic activities.</p> <p>Reflection - Create a list of your favourite games and activities. Explain why playing and having fun is important for you.</p> <p>Project: Design a space probe or a rocket that can explore another planet or moon. Explain its purpose and what it hopes to discover.</p>  <p>Resources –</p> <ul style="list-style-type: none"> • ESA Kids - Space for Kids • SpaceX - Journey to Mars <p>Another way of presenting this is that you could use multimedia presentations with simplified text and visuals, or interactive apps that allow you to virtually design and launch your space probe or rocket. Focus on visual and auditory experiences.</p>	<p>Article 12 Every child has the right to have a say in all matters affecting them, and to have their views taken seriously.</p> <p>Reflection - Think of a time when you wanted to share your ideas or thoughts. Write a letter to a teacher or a parent, telling them what you think about something important to you.</p> <p>Project: Choose a famous astronomer (e.g., Galileo, Copernicus, Hubble) and create a biography or a presentation about their contributions to our understanding of space.</p> <p>Your biography may include:</p> <ul style="list-style-type: none"> • Early life • Adult life • Later life • Legacy  <p>Resources –</p> <ul style="list-style-type: none"> • Biographies of Famous Astronomers • NASA's History of Telescopes <p>Another way of presenting this is that you could create a picture or symbol board to tell the story of a famous astronomer.</p>	<p>Article 3 The best interests of the child must be a top priority in all things that affect children.</p> <p>Reflection - Choose a situation or problem, like school rules or a family decision. Discuss with your family what would be best for you and other children in that situation.</p> <p>Project: Imagine what the future of space exploration might look like. Create a futuristic space travel brochure or poster. What do you think humans will discover or achieve in space?</p> <p>You may want to include destination name, introduction, celestial wonders, astronaut adventures, galactic gourmet, cosmic camps, space safety tips, star map and Astro-images.</p>  <p>Resources –</p> <ul style="list-style-type: none"> • Space Travel in the Future • NASA's Journey to Mars <p>Another way of presenting this is that you could draw/ represent your vision of the future of space exploration or create a simple interactive storybook.</p>

Belmont School Home Learning Year 5 Autumn 2 2023

Spellings

Every week you will have a spelling test. Please learn the spellings.

	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Group 1	wrap wreck knock knight knit gnome gnaw sign gold everybody	badge sledge village cage gem energy jam jacket even only	cereal ice race circus cinema city bicycle fancy behind floor	cry fly dry reply flies dries copies babies break poor	copying copied crying cried replying replied drying dried kind hold	donkeys worth towards hall watch come wrote design fudge decide
Group 2	expansion extension tension confusion transfusion supervision comprehension busy experience remember	action injection completion attention direction education invention perhaps popular bicycle	expression discussion confession permission admission possession fruit breath complete continue	inform admire sense adore prepare preparation information admiration sensation adoration	musician magician politician electrician optician mathematician minute heard natural peculiar	haven't couldn't forgotten gardening decision action expression permission attention mathematician
Group 3	crucial facial official special beneficial artificial superficial average awkward bargain	partial essential potential substantial confidential residential influential variety controversy curiosity	advice advise device devise licence license practice practise develop ancient	occur suggest attached appreciate according aggressive recommend immediate communicate opportunity	bruise category cemetery definite desperate dictionary embarrass environment exaggerate marvellous	borough advice nutritious confidential suspicious thorough nuisance parliament privilege secretary