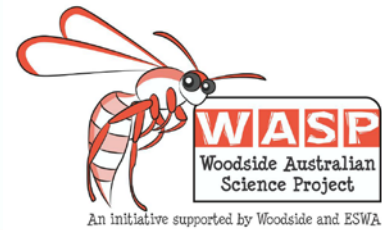


At Home Learning – Year 5



In support of students and their Earth and Space Science learning, the following is a sequence of tasks and activities that could be carried out at home.

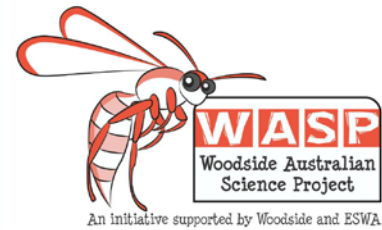
Objectives:

At the completion of this unit of work students will:

- Understand the Earth's place in our solar system
- Be able to describe the orbit of planets around the Sun
- Understand the important players in protecting life on Earth

Focus	Activity/ies	WASP Support Resources
The Planets in our solar system	<ul style="list-style-type: none"> • Research the planets in our solar system. What are they made of? Why are the rocky planets closer to the Sun? • Create your own mnemonic, to assist you to remember the planets in our solar system in order 	Solar system animation - https://www.youtube.com/watch?v=7SNLosNjRo Planetary passport - https://www.wasp.edu.au/mod/resource/view.php?id=469 Planetary quiz - https://www.wasp.edu.au/mod/resource/view.php?id=471 Rocky & gas planets - https://www.wasp.edu.au/mod/resource/view.php?id=467 Planetary mnemonic - https://www.wasp.edu.au/mod/resource/view.php?id=465
Orbits	<ul style="list-style-type: none"> • What do the orbits of the planets around the Sun look like? Create a model of these orbits. • What do the planets in our solar system have to do with music. Can you create your own harmony? 	Ellipse - https://www.wasp.edu.au/mod/resource/view.php?id=477 Harmony of the spheres - https://www.wasp.edu.au/mod/resource/view.php?id=615
Space Travel	<ul style="list-style-type: none"> • What would you need to travel to Mars? How different would it be if you were heading to Jupiter instead? 	Rockets and Range - https://www.wasp.edu.au/mod/resource/view.php?id=479
Life	<ul style="list-style-type: none"> • Why do some researchers call Earth the Goldilocks planet? • Where does most of the energy for life on Earth come from? 	Sun and light energy - https://www.wasp.edu.au/mod/resource/view.php?id=483 Sun & Heat - https://www.wasp.edu.au/mod/resource/view.php?id=485 (use glasses instead of beakers and a kitchen thermometer)

At Home Learning – Year 5



Focus	Activity/ies	WASP Support Resources
Historically Thinking and What If?	<ul style="list-style-type: none"> • Our understandings of our solar system and life have changed a lot over time. Research some of the early ways of thinking. • Think about what might happen in each given scenario (for example, what if the Earth stopped spinning?) 	Historical thinking - https://www.wasp.edu.au/mod/resource/view.php?id=488 What If... - https://www.wasp.edu.au/mod/resource/view.php?id=620
Protecting the Earth	<ul style="list-style-type: none"> • Research the magnetosphere. Why it is so important for all life on Earth? • The ozone layer is also critical to life on Earth. What is it? How does it protect us? 	Magnificent magnetosphere - poster Earth's lifeguards - https://www.wasp.edu.au/mod/resource/view.php?id=621