



YEAR 5 - TEACHER INTRODUCTION

The Primary Australian Literacy Mathematics & Science (PALMS) Program aims to enrich and support the teaching of earth science from Kindergarten to Year 5 across Australia. This will be achieved by providing, within the mandated Earth and Space Science curriculum, hands-on activities integrating aspects of Chemical Sciences, Physical Sciences and Biological Sciences as well as relevant components of English, Mathematics and other subjects into teaching packages.

These teaching packages will be made available at www.palms.edu.au.

Solar System

Activities marked **PPP** (PALMS PARENT POWER) are ones you may wish to send home with the students to do with their parents or by themselves. They replay the concepts recently covered in Science. Studies demonstrate that if a student describes what they have learned to another, they deepen their own understanding and retain it longer.

Topic No.	Topic	Activities	Student worksheet	Subjects	Page No.
1	Formation of the Universe	Expanding Universe		Science	1
		Static Electricity	X	Science	3 + 8
		Gravity	X	Science	12 + 17
		Planet Shape	X	Science & Maths	21 + 24
		We are Star Stuff		Science & English	27
2	Meet the Neighbours	Names of the Planets	X	Science & English	29 + 32



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2	Meet the Neighbours	My Planet Rules!	X	Science	33 + 36
		The Problem with Pluto	X	Science	38 + 41
		The First Martian?	X	STEM awareness	45 + 50
3	Do the Math!	Copernican Revolution	X	STEM awareness	56 + 63
		Orbit Shapes and AU		Maths & Science	67
		Patterns in the Sky	X	Maths & Science	72 + 75
		Toilet Paper Scale	X	Science & Maths	77 + 83
4	Energy from the Sun	Energy for Planets	X	Science & HASS	88 + 94
		Heat and Yeast	X	Science	101 + 108
		Magnetosphere	X	Science	114 + 120
5	Critical Thinking	Planets and Beliefs	X	Science & HASS	125 + 128
		Making Your Mark	X	Science	131 + 133
		We Know Where Your Live	X	Science HASS	135 + 139
6	PPP	Finding Your Way	X	Science & HASS	144



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Australian Curriculum (WA) - Earth and Space Sciences

The Earth is part of a system of planets orbiting around a star (the sun)
(ACSSU978)

Major concepts also included:

Science

- Science involves testing predictions by gathering data and using evidence to develop explanation of events and phenomena and reflects historical and cultural contributions.
- Scientific knowledge is used to solve problems and inform personal and community decisions.
- Decide variables to be changed and measured in fair test, and observe measure and record data with accuracy using digital technologies as appropriate.
- Reflect on and suggest improvements to scientific investigations.

Mathematics

- Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and appropriate digital technologies.
- Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies.

English

- Understand that patterns of language interaction vary across social contexts and types of texts and that the help to signal social roles and relationships
- Present a point of view about particular literary texts using appropriate metalanguage, and reflecting on the viewpoints of others.

HASS

- Locate and collect information and/or data from a range of appropriate primary resources and secondary sources



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