

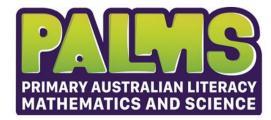
The Primary Australian Literacy Mathematics & Science (PALMS) Program aims to enrich and support the teaching of earth science from Kindergarten to Year 5 across Australia. This will be achieved by providing, within the mandated Earth and Space Science curriculum, hands-on activities integrating aspects 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.

Earth's rotation on its axis causes regular changes, including night and day.

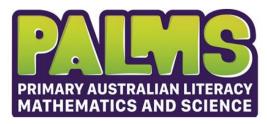
Activities marked PPP (PALMS PARENT POWER) are ones you may wish to send home with the students to do with their parents or by themselves. They replay the concepts recently covered in Science. Studies demonstrate that if a student describes what they have learned to another, they deepen their own understanding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

Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
1	Sun as a Source of	Seeing is Believing		Science + Health	1
	Energy	Light Print Paper	×	Science + technology	2 + 7
		Sun Changed Paper	×	Science Structured Learning	9 + 13
		PPP - Think Ink	Х	Science	16 + 18





Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
1	Sun as a Source of	What Colour is White Light?	×	Science + Health	20 + 22
	Energy	Sunlight Source	×	Science + English	24 + 25
		Invisible Light	×	Science + Health	27 + 31
		Changing Christmas Baubles	×	Science	33 + 35
		Word Wall	×	Science + English	37 + 38
		What is Hot?	×	Science + Maths	39 + 43
		Parallax Error	×	Science + Maths	44 + 45
		Cool School	×	Science + Maths	46 + 49
		Prediction & Testing	×	Science	53 + 55
		Heat from the Sun	×	Critical thinking	56 + 57
		Sunlight and Shade	×	Science	58 + 59
2	Earth spins	What the Sailor Saw	×	Science	61 + 63
		Earth Spins		Science + HASS	64
		Time Words	×	Science + English	67 + 68
		Day & Night		Science + HASS	69





Topic	Topic	Activities	Student	Subjects	Page
No.	· opio	7.611711.65	Worksheet	Cabjetis	No.
3	Timescales	Aboriginal	X	Science + HASS	71 +
		Time			74
		Day v Night		English	76
		Time		Science + English	77
		Vocabulary			
		Midday Around		Science + HASS	78
		the World			
		12 Hours		Science + Maths +	80
				HASS	
		Timely	X	Science + Maths	82 +
		Fractions			83
		Book of Hours	X	Science + English +	84 +
				Maths	85
		Relative Time	X	Science + Maths	86 +
		Graph			89
		Time Zones		Science +	92
				Technology	
		Solar &		Science + HASS	94
		Sidereal Day	.,		0.7
4	Shadows	Investigating	X	Science	97 +
		Shadows		Cairman Alabha	99
		Shadow Graph	X	Science + Maths	102 +
		Clandour 0 A+		Caianas : Asst	105
5	Sundials	Shadows & Art Nodal Sundial	X	Science + Art Science + Maths	107 108 +
	Suridiais	1400ai Sundiai	^	Science + Mains	113
		T Bar Sundial	X	Science + Maths +	117 +
		i Bar Surialal	^	Tech.	120
		Gnoman	X	Science + Maths +	
		Gnomon Sundial	^		123 + 128
		Surialai		Technology	170





Topic No.	Topic	Activities	Student Worksheet	Subjects	Page No.
5	Sundials	PPP - Digital and Analogue	X	Science + Technology	133
		Time			
6	Sun, Earth	Getting the	X	Science + Art	135 +
	& Moon	Right			139
		Perpective			
		Modelling to	X	Science and Maths	141 +
		Scale			143
		Rotation and Orbit Models		Science + HASS	145
		Worship the	X	English + Science	149 +
		Sun			150





Australian Curriculum

Earth & Space Science

Earth's rotation on its axis causes regular changes, including night and day.

Elaborations

- Recognising the sun as a source of light.
- Constructing sundials and investigating how they work.
- Describing timescales for the rotation of the Earth.
- Modeling the relative sizes and movement of the sun, Earth and moon.

English

Language has different written and visual communication systems, different oral traditions and different ways of constructing meaning Identify text structures, language features to describe characters, settings & events.

Identify features of online texts that enhance navigation Learn extended and technical vocabulary.

Use interactive skills

Maths

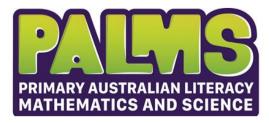
Tell time to the minute

Make models of three-dimensional objects and describe key features Create simple column graphs

<u>Recognise</u> the connection between addition and subtraction and <u>solve</u> problems using efficient strategies for multiplication.

They model and <u>represent</u> unit fractions.

Students <u>identify</u> symmetry in the environment. Match positions on maps with given information.





Maths (continued)

Students recognise angles as measures of turn in everyday situations. Interpret and compare data displays.

Students count to and from 10 000.

Use Iosmetric units for length, mass and capacity.

History (HASS)

Pose questions using past sources Impact of changing technology

Geography (HASS)

Connections - Where did it come from & how did it get here?

Connections of people in Australia to other places in Australia, countries in the Asian region and across the world.

