

WASP 5 – Teacher Introduction

The Woodside Australian Science Project (WASP) is an initiative supported by Woodside and Earth Science Western Australia (ESWA).

These activities are designed to support the Earth & Space Science topic required by the Year 5 Australian Curriculum.

Copies of this and other supporting materials can be obtained from the WASP website <http://www.wasp.edu.au> or by contacting Julia Ferguson, Julia@wasp.edu.au

Topic 1	Formation of our Solar System
Topic 2	Identifying Planets
Topic 3	Orbits
Topic 4	The Sun and Energy
Topic 5	Thinking About Planets

Earth & Space Science

Science Understanding

The Earth is part of a system of planets orbiting around a star (the sun) (ACSSU078)

- Identifying the planets of the solar system and comparing how long they take to orbit the sun
- Modeling the relative size of and distance between Earth, other planets in the solar system and the sun
- Recognising the role of the sun as a provider of energy for the Earth

Science as a Human Endeavour

Nature and development of science

- Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena (ACSHE081)
- People have made important contributions to the advancement of science from a range of cultures (ACSHE082)

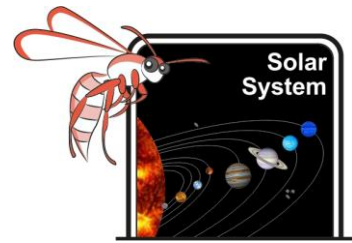
Use and influence of science

- Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives (ACSHE083)
- Scientific knowledge is used to inform personal and community decisions (ACSHE217)

Science Inquiry Skills

Questioning and predicting

- With guidance, pose questions to clarify practical problems or inform a scientific investigation, and predict what the findings of an investigation might be (AC SIS231)



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Planning and conducting

- With guidance, plan appropriate investigation methods to answer questions or solve problems (AC SIS086)
- Decide which variable should be changed and measured in fair tests and accurately observe, measure and record data, using digital technologies as appropriate (AC SIS087)
- Use equipment and materials safely, identifying potential risks (AC SIS088)

Processing and analysing data and information

- Construct and use a range of representations, including tables and graphs, to represent and describe observations, patterns or relationships in data using digital technologies as appropriate (AC SIS090)
- Compare data with predictions and use as evidence in developing explanations (AC SIS218)

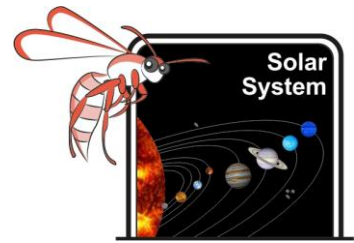
Evaluating

- Suggest improvements to the methods used to investigate a question or solve a problem (AC SIS091)

Communicating

- Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts (AC SIS093)

- 1 Formation of our Solar System.....**
 - Solar System Static - Student Activities.....
 - Solar System Gravity - Student Activity.....
- 2 Identifying Planets.....**
 - Orbit and Size - Student Activity.....
 - Planet Mnemonic - Student Activity.....
 - Rocky and Gas Planets - Student Activity.....
 - Planetary Passport - Student Research.....
 - Planetary Quiz - Student Activity.....
 - Twinkle, Twinkle? - Teacher Demonstrations
- 3 Orbits.....**
 - Circling the Sun - Student Activity.....
 - Ellipses - Student Activity.....
 - Rockets and Range - Student Activity.....



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- 4 The Sun and Energy.....**
 - Sun & Energy – Teacher Demonstration
 - Sun & Light - Student Activity.....
 - Sun & Heat – Student Activity

- 5 Thinking About Planets.....**
 - Historical Thinking - Student Activity.....