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 (ACSH081)
- People have made important contributions to the advancement of science from a range of cultures (ACSH082)

**Use and influence of science**

- Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples’ lives (ACSH083)

- Scientific knowledge is used to inform personal and community decisions (ACSH217)

**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 (ACSI0231)
Planning and conducting
- With guidance, plan appropriate investigation methods to answer questions or solve problems (ACSIS086)
- Decide which variable should be changed and measured in fair tests and accurately observe, measure and record data, using digital technologies as appropriate (ACSIS087)
- Use equipment and materials safely, identifying potential risks (ACSIS088)

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 (ACSIS090)
- Compare data with predictions and use as evidence in developing explanations (ACSIS218)

Evaluating
- Suggest improvements to the methods used to investigate a question or solve a problem (ACSIS091)

Communicating
- Communicate ideas, explanations and processes in a variety of ways, including multi-modal texts (ACSIS093)

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............
WASP 5 – Teacher Introduction

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