

E8 Human Space Exploration

LEVEL(s): yr 4 - 13



LESSON FOCUS

Conditions on the Moon and Human Exploration of the Moon

SPECIFIC LEARNING OUTCOMES

At the end of this lesson the students will be able to:

- 1) Discuss what conditions are like on the Moon, and how we might adapt to them.
- 2) Discuss some of the different features on the Moon and what the different features might tell us.

LEARNING ACTIVITIES

- **Build a Moon Base:** (yrs 4 - 6)
After an introduction to the Moon and discussion about why we would go there, the students divide into groups to decide what is needed to live on the Moon (ie. Where to build? What kind of energy source? How to travel?).
- **Return to the Moon presentation:** (yrs 6+):
Educator-lead discussion on previous missions to the Moon, current missions, and future plans to return to the Moon. Includes images and footage taken from the historical missions.

CURRICULUM LINKS

SCIENCE: Planet Earth and Beyond <ul style="list-style-type: none">• Astronomical Systems• Interacting Systems	SCIENCE: Physical World <ul style="list-style-type: none">• Physical Inquiry and Physics Concepts
SCIENCE: Living World <ul style="list-style-type: none">• Life processes	TECHNOLOGY: Technological Knowledge <ul style="list-style-type: none">• Technological Modelling

KEY COMPETENCIES

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|--|--|--|
| <input checked="" type="checkbox"/> Thinking | <input checked="" type="checkbox"/> Relating to Others | <input checked="" type="checkbox"/> Participating and Contributing |
| <input type="checkbox"/> Using language, symbols and texts | | <input type="checkbox"/> Managing Self |

PRIOR KNOWLEDGE AND EXPERIENCES

BUILD A MOON BASE – Some knowledge of the Moon, including basic knowledge of gravity.

RETURN TO THE MOON PRESENTATION – no prior knowledge needed.