



20 July is 40th anniversary of the Moon landing!



A comprehensive guide to Earth's nearest neighbour, this fact-and-photograph-filled information book covers everything from ancient worship of the Moon to astronomy and the space race.

Extraordinary, never-collected-before photographs are combined with diagrams, plus additional information—a lunar timeline, hall of fame, glossary, useful websites, giant wallchart and clipart CD—to allow you to customise your teaching materials or classroom activities.

Classroom Activities

HSIE/SOSE

- Ask students to work in groups to research particular aspects and periods of space exploration. Some suggested topics: Moon Facts and Figures; Development of the Rocket; The Space Race; What Astronauts Need; The Moon Landing; Our Future in Space.

Maths

- Set mathematical challenges based on space. For example: The average distance between Earth and the Moon is 384 400 km. If a car travels at 100 kph, how long would it take to travel that far in days and minutes?
- Apollo astronauts collected 382 kg of rock samples in total. If a bag of potatoes weighs 4 kg, how many bags of potatoes would equate to 382 kg?
- Colour in a Moon diagram according to its phases.
- Ask students to record on a graph the phases of the Moon they observe in the night sky over the course of one month.

Science

- Conduct experiments exploring concepts such as motion, thrust and gravity.
- Make a pop rocket using paper, a film canister and antacid tablets. See <http://spaceplace.nasa.gov/en/kids/rocket.shtml>
- Compare the speed of different objects dropping to the ground from a height: golf ball, tennis ball, soccer ball, ping-pong ball, marble.

Performing Arts

- In groups ask students to choreograph a Moon dance piece. You could use Michael Jackson's Moonwalk dance as inspiration. Suggested pieces of music: Gustav Holst's *The Planets*; The Beatles' *Across the Universe*, which was beamed directly into space by NASA on 4 Feb 2008; *Spaceman* techno remix; *Walking on the Moon* by The Police; the soundtrack to *2001: A Space Odyssey* by Stanley Kubrick; *Rocket Man* by Elton John.

Language

- Debate the topic: That exploring the future of mankind in space is more important than solving problems on Earth.

Creative Writing

- Brainstorm Moon and Space words and set a first phrase for a creative writing piece such as: 'With a deafening roar and a blinding flash...'

Internet Research

- Research recent discoveries about the Moon and the goals of new scientific missions such as the Lunar Crater Observation and Sensing Satellite (LCROSS) on the NASA website: www.quest.nasa.gov (The NASA website also has education resources and webcasts.)