

WHAT'S UP IN SPACE SERIES (7-PART)

- EARTH
- EXPLORING SPACE
 - MARS
 - MOON
- PLANETS
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- SUN

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THE SOLAR SYSTEM FOR KIDS

WHAT'S UP IN SPACE?



EXPLORING SPACE

MEETS NATIONAL
SCIENCE STANDARDS

STUDY GUIDE

COMPREHENSION QUESTIONS:

How did scientists prepare to send humans into space?

Which country was first to send a human being into orbit?
What year did this happen?

Which country was the first to send a human to land on the moon? What year did this happen?

What problem did the Apollo 11 astronauts encounter on their way to the moon? What happened?

What famous words were said by Neil Armstrong when he stepped onto the moon?

What did the astronauts do on the surface of the moon?
What did they bring back to Earth?

What do astronauts wear while they travel in space?
What do they wear when they are working outside of their spacecraft? Why are their outfits different?

What kinds of special equipment are included on space suits?

What is different about living in space?

How do astronauts prepare for spending time in space?

What kinds of work do astronauts do in space?

How is the Space Shuttle different from a rocket ship?
What is better about the Space Shuttle?

VOCABULARY:

Telescope – An invention that astronomers have used for centuries to look at objects in space from Earth.

Apollo 11 – The name of the first successful mission to land on the surface of the moon.

Payload – The space in the tip of the rocket that held the astronauts.

Lunar Rover – A special buggy that was built to help astronauts explore more of the moon's surface.

Gravity – The force that keeps us anchored to Earth. Astronauts experience no gravity in outer space – this makes it difficult to eat and sleep.

Space Shuttle – A vehicle designed for modern space travel, it is like a combination airplane and rocket.

International Space Station – A station in space where astronauts from many different countries come together to work and learn.

INTRODUCTION TO SERIES

What's UP In Space? Is a refreshingly new series that introduces young learners to the solar system. These fascinating topics are presented at a developmentally appropriate level, using a combination of live action footage, illustrations and computer animation. Each program answers important questions in space science using the latest research and in line with the American National Science Education Standards.

As a complementary device with each program, an instructional guide suggests exercises to enhance the learning for teachers, parents and students. These interactive exercises will reinforce and further develop a student's level of comprehension.

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Permission granted to copy the exercises provided in this guide. For educational use ONLY.

E-Guides available at www.filmideas.com

EXPLORING SPACE

From the first rockets sent into space to the latest missions to Mars, “EXPLORING SPACE” presents the history of space travel. The program will explain the technology used to launch people into space. Landmark missions by countries around the world are highlighted, as well as the most recent scientific findings.

ADDITIONAL RESOURCES:

<http://kids.msfc.nasa.gov/>

<http://liftoff.msfc.nasa.gov/>

<http://www.nyise.org/science/>

<http://space.about.com/cs/history/>

Space

by Simon Holland

Space Exploration

by Dana Meachen Rau

DK Readers: Spacebusters (Level 3: Reading Alone)

by Philip Wilkinson, Dowswell

Can You Hear a Shout in Space?:

Questions and Answers about Space Exploration

by Melvin Berger, Gilda Berger,
Vincent Di Fate (Illustrator)

ASSESSMENT OF PRIOR KNOWLEDGE:

When did people first take interest in learning about outer space?

How did people learn about space?

When did people develop the technology to visit space?

DISCUSSION QUESTIONS:

Neil Armstrong said that his steps on the moon were, “a small step for man, one giant leap for mankind.”

What did he mean by this?

Imagine that you are going into space to live for a whole year – what do you think would be the most fun? The most difficult? The most interesting?

What questions would you like to learn more about?

FOLLOW UP ACTIVITIES:

- China had a breakthrough in 2003 – and many nations have contributed to our knowledge of outer space. Students can make a timeline of events in the history of space exploration, and chart the contributions of people from different countries and cultures.

- Consult NASA websites and news sources to keep track of the latest missions in space exploration. What are scientists working on next? Where do scientists want to go next? What problems do astronauts encounter in modern space travel?