

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

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



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THE SOLAR SYSTEM FOR KIDS

WHAT'S UP IN SPACE?



THE SUN

MEETS NATIONAL
SCIENCE STANDARDS

STUDY GUIDE

COMPREHENSION QUESTIONS:

Which is the closest star to planet Earth?

What is the sun? How does it resemble the flame on a candle?

What is the sun made of?

Why is the Sun at the center of the solar system?

What makes the Earth a perfect place to live in respect to the Sun?

How does the sun give us food? Why do we need the sun to breathe?

How does is the Sun responsible for day and night on Earth? What makes sunrise and sunset?

Why do we need to be careful when we are out in the Sun?

What is a solar flare? How do solar flares affect the surface of the sun?

Where does the Sun's power come from?

VOCABULARY:

Solar System – The sun and the nine planets that orbit it.

Photosynthesis – The process by which plants combine the Sun’s light with carbon dioxide and water to make their own nourishment.

Ultraviolet Rays – Rays from the sun that can cause sunburns.

Solar Flares – A sudden explosion on the surface of the sun.

Sunquakes – Shaking on the sun, caused by large solar flares.

Sun Spots – Large dark spots on the Sun, caused by storms on the Sun’s surface.

Solar Wind – The flow of particles from the sun to the outer edges of the solar system.

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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SUN

“SUN” not only shows students how the sun works, but it also reveals how important the sun is to sustaining life on this planet. An explanation of photosynthesis reveals to students how the sun gives us air and food in addition to light and warmth. Sunspots, storms and sunquakes are included in this exploration of our closest star.

ADDITIONAL RESOURCES:

http://www.kidsastronomy.com/our_sun.htm
<http://www.enchantedlearning.com/subjects/astronomy/>
<http://kids.msfc.nasa.gov/>
<http://www.seds.org/billa/tnp/sol.html>
<http://www.astronomy.com/content/static/AstroForKids/sun.asp>

The Sun

by Seymour Simon

The Sun (Out in Space)

by Martha E. H. Rustad, Gail Saunders-Smith

The Sun (Eye on the Universe)

by Niki Walker, Bobbie Kalman

The Sun: Our Nearest Star

(Let's-Read-and-Find-Out Science)

by Franklyn M. Branley, Edward Miller

ASSESSMENT OF PRIOR KNOWLEDGE:

What is the Sun? What is the Sun made of?

Why is the Sun important to the Earth?

DISCUSSION QUESTIONS:

What would the Earth be like without the sun? How is the sun important to sustaining life on Earth?

How is the Sun responsible for our four seasons?

How is weather different during the seasons in the north and south?

FOLLOW UP ACTIVITIES:

How big is the Sun compared to the size of Earth?

Have students research the relative sizes, and create scale models of the two bodies, including a scale of their distance apart.