

Lesson 1: What are some patterns that repeat every day?

Vocabulary

star a giant ball of hot, glowing gases
axis the imaginary line around which Earth spins
rotation one complete spin on an axis

The Sun

Did you know the Sun is a **star**? A star is a giant ball of hot, glowing gases. It is the main source of light and heat for Earth. Earth does not glow or make its own light. It is also much smaller than the Sun. The half of Earth's surface facing the Sun is lit by sunlight. The half of Earth's surface facing away from the Sun is dark.

Day and Night

Earth is moving all the time. One way that Earth moves is by spinning around, or rotating. Earth spins on its axis. An **axis** is an imaginary line. One end of the line sticks out of Earth at the North Pole. The other end of the line sticks out of Earth at the South Pole.

Earth spins in a complete circle every 24 hours. This is called **rotation**. Half of Earth always faces the Sun. That half of Earth has day. The half of Earth that is not facing the Sun has night. As Earth spins, the part of Earth that is in darkness slowly gets more sunlight. A new day begins. At the same time, the part of Earth that was lit by sunlight slowly becomes darker. Daytime ends. This is a pattern that happens every day.

Shadows

Have you ever sat in the shade of a tree? Did you know that you were sitting in a shadow? Three things are needed to see a shadow: light, an object to block the light, and a surface on which the shadow can form.

A shadow forms when light hits an object. The object stops this light. The shadow is an area behind the object that is not getting direct light. The shadow has about the same shape as the object that blocks the light.

The size and shape of shadows change during the day. Shadows are long in the early morning hours. They stretch in the opposite direction of the Sun. This means shadows stretch toward the west. At noon, the Sun is at its highest point in the sky. Shadows are very short. Shadows become long again as the afternoon passes. Now, the shadows stretch toward the east. This is in the opposite direction of the setting Sun. Once the Sun sets, there is no more sunlight to make shadows.

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IM Harris



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exploring various perspectives and opinions invites readers to participate in a constructive dialogue broadening their understanding and deepening their empathy for different viewpoints

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Product Innovation through Knowledge Management and Social Media Strategies Goel, Alok Kumar, 2015-11-24

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O'Neil Database, 2008

International Conference on Advancements of Medicine and Health Care through Technology; 29th August - 2nd September 2011, Cluj-Napoca, Romania Simona Vlad, Radu V. Ciupa, 2011-07-25 This volume presents the contributions of the third International Conference on Advancements of Medicine and Health Care through Technology Meditech 2011 held in in Cluj Napoca Romania The papers of this Proceedings volume present new developments in Health Care Technology Medical Devices Measurement and Instrumentation Medical Imaging Image and Signal Processing Modeling and Simulation Molecular Bioengineering Biomechanics

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