

## **Lesson Plan: Sun Secrets – Exploring the Solar Eclipse**

**Age Group:** 5 years old and upwards

**Duration:** 30–40 minutes

**Materials Needed:**

- **Interactive video of Sun Secrets – Exploring the Solar Eclipse** from [www.discoverlifeskills.com](http://www.discoverlifeskills.com)
  - A ball to represent the Earth
  - A smaller ball (or foam ball) to represent the Moon
  - A flashlight to represent the Sun
  - Solar eclipse glasses (optional)
  - Paper and coloring materials for drawing activity
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### **Lesson Objectives:**

By the end of this lesson, students will be able to:

1. Understand what a solar eclipse is.
  2. Identify the roles of the Sun, Earth, and Moon during a solar eclipse.
  3. Explain why it's important not to look directly at the Sun without special glasses.
  4. Show curiosity about space and celestial events.
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### **Lesson Outline:**

#### **1. Introduction (5–7 minutes)**

- **Begin with a question:** "Has anyone ever heard of a solar eclipse?"
- **Explain:** Sometimes, the Moon moves between the Sun and the Earth, creating a solar eclipse where the Sun looks like it's disappearing for a short time.
- **Key Vocabulary:** Solar Eclipse, Sun, Moon, Earth, Shadow

#### **2. Watch the Interactive Video (5 minutes)**

- Show the **interactive video of "Sun Secrets: Exploring the Solar Eclipse"** from [www.discoverlifeskills.com](http://www.discoverlifeskills.com) to introduce the students to the topic and give them a visual understanding of what happens during a solar eclipse.

### 3. Discussion (5–7 minutes)

- **Ask students:**
  - “What did you see happen when the Moon moved in front of the Sun?”
  - “Why do you think we shouldn't look directly at the Sun during a solar eclipse?”
- **Discuss safety:** Explain that we need special glasses to protect our eyes because looking at the Sun can hurt them.
- **Emphasize:** A solar eclipse is a rare event and looks like a "dance" between the Sun, Moon, and Earth!

### 4. Hands-On Demonstration (10–12 minutes)

- **Set up the scene:** Use a flashlight (Sun), a ball (Earth), and a smaller ball (Moon).
- **Demonstrate:**
  - Shine the flashlight on the ball representing the Earth.
  - Move the smaller ball (Moon) between the flashlight and the larger ball (Earth) to show how the Moon blocks the light from the Sun.
  - Point out the shadow that falls on the Earth—this is what happens during a solar eclipse!
- **Invite students to try:** Let the students take turns moving the “Moon” in front of the “Sun” to block the light and create an eclipse.

### 5. Creative Activity (7–10 minutes)

- **Drawing:** Ask students to draw their own picture of a solar eclipse.
  - Encourage them to show the Sun, Moon, and Earth in their drawings.
  - They can color the Sun as a bright circle with part of it darkened by the Moon.

### 6. Closing Discussion (5 minutes)

- **Recap:**
  - Ask students to explain what happens during a solar eclipse.
  - Emphasize again that they should never look at the Sun without protection.
- **End with a fun fact:** “Did you know that the next time we can see a solar eclipse might be many years from now? But it’s always exciting to watch!”

### 7. Optional Activity

- **Solar Eclipse Glasses:** If available, show students what solar

eclipse glasses look like and explain that scientists and sky watchers use these to safely view the eclipse.

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**Teacher's Notes:**

- Reinforce the safety aspect of not looking at the Sun directly.
- Keep the tone fun and engaging, using simple terms to explain what a solar eclipse is.
- Encourage curiosity by asking questions and allowing students to actively participate in the demonstration.

This lesson introduces young children to the wonders of space in a fun, hands-on way while teaching them important safety information about solar eclipses. The interactive video enhances the experience by providing a visual and engaging explanation.