



## Lunar and Solar Eclipse Worksheet

Discuss the following questions in pairs or with your learning partner/group

### **Part 1: Lunar Eclipse**

A lunar eclipse occurs when the Earth comes between the Sun and the Moon, causing the Earth's shadow to be cast upon the Moon. This can only happen during a full moon. When the Earth's shadow covers the Moon partially, it's called a partial lunar eclipse. When the Earth's shadow completely covers the Moon, it's called a total lunar eclipse. During a total lunar eclipse, the Moon can appear to have a reddish hue, often referred to as a "blood moon."

Questions:

1. What causes a lunar eclipse to occur?
2. When can a lunar eclipse occur?
3. What is a partial lunar eclipse?
4. Describe a total lunar eclipse. Why does the Moon appear reddish during a total lunar eclipse?

### **Part 2: Solar Eclipse**

A solar eclipse happens when the Moon comes between the Earth and the Sun, blocking out the Sun's light. There are three types of solar eclipses: partial, annular, and total. In a partial solar eclipse, only a part of the Sun is blocked by the Moon. In an annular eclipse, the Moon appears smaller than the Sun, leaving a ring of sunlight around the Moon's edges. In a total solar eclipse, the Sun is completely covered by the Moon, causing a brief period of darkness during the day.

Questions:

1. How does a solar eclipse occur?
2. Name and briefly describe the three types of solar eclipses.
3. What is an annular eclipse? How does it differ from a total solar eclipse?
4. Why does a total solar eclipse result in darkness during the day?

### **Part 3: Compare and Contrast**



Compare and contrast lunar and solar eclipses. Use the Venn diagram below to list the similarities and differences between the two types of eclipses.

Draw and label

- a) The lunar Eclipse
- b) Solar Eclipse

Questions:

1. What are the main similarities between lunar and solar eclipses?
2. What are the key differences between lunar and solar eclipses?

Bonus Question : Imagine you are watching a lunar eclipse from the Moon's surface. What would you see and experience? How would it be different from watching a solar eclipse from Earth?

Challenge Question : Research and describe an interesting cultural or historical significance of either a lunar or solar eclipse in different civilizations.

### **Take home**

Challenge Question : Research and describe an interesting cultural or historical significance of either a lunar or solar eclipse in different civilizations.