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## 6.04 Eclipses and Moon Phases Guided Notes

### Objectives:

In the lesson, you will:

- explain what causes eclipses and how often they occur
- compare the two types of eclipses
- explain what causes moon phases
- describe each phase of the moon

### Big Ideas:

Key Questions and Terms	Notes
Focus Question: What causes lunar and solar eclipses?	
Describe what causes a solar eclipse.	
Describe what causes a lunar eclipse.	
Why do lunar eclipses make the moon appear red in color?	
Draw an example of a lunar eclipse.	
Draw an example of a solar eclipse.	
Focus Question: What causes the phases of the moon?	
At any given time in space, how much of the moon is lit by the sun?	
Describe the appearance of the moon and its position during each phase: <ul style="list-style-type: none"> <li>● New moon:</li> <li>● Waxing crescent moon:</li> <li>● First quarter moon:</li> <li>● Waxing gibbous moon:</li> <li>● Full moon:</li> </ul>	

<ul style="list-style-type: none"> <li>• Waning gibbous moon:</li> <li>• Third quarter moon:</li> <li>• Waning crescent moon:</li> </ul>	
How are lunar phases different from eclipses?	

### Eclipses Video:

Key Questions and Terms	Notes
When the moon passes between the sun and Earth, it can create a _____ eclipse.	
When the disk of the moon masks the disk of the sun, it creates a _____ eclipse.	
_____ eclipses occur when Earth passes between the sun and the moon.	
During a lunar eclipse, the moon turns dark _____ due to the deviation of the sun's rays caused by Earth's atmosphere.	
_____ eclipses occur more often and last longer.	