

# Astronomy Unit 3 Plan

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Learning Objective: Explore the relative size, distance, composition, and temperature of the Sun, Earth and Moon.

Day One – Personal Ad

Day Two – Model Size

Day Three – Model Distance

Learning Objective: Do the sun and moon rotate? Why does the same side of the moon always face Earth?

Day Four – A Day on Venus – Sunspots

Day Five - Rotation of the Moon

Learning Objective: Learn the difference between rotation and revolution by modeling the motions of the sun-Earth system.

Day Six – Round and Round we go

Day Seven – Moon Lecture

Learning Objective: Identify the phases of the moon and their causes, and frequency.

Day Eight – Virtual Moon Journal

Day Nine – Virtual Moon Journal Day 2

Day Ten – Virtual Moon Journal Day 3 – Graphing in the Lab

Day Eleven – Moon Watch Lab

Learning Objective: Identify the causes of solar and lunar eclipses. Apply the nature of the moon's orbit to the analysis of eclipse events.

Day 12 – Making Eclipse Posters – Day 1

Day 13 – Making Eclipse Posters – Day 2

Day 14 – Modeling Solar and Lunar Eclipses

Day 15 – Line of Nodes – Kepler's Laws Lecture

Day 16 – Eclipse Cycles Day 1

Day 17 – Eclipse Cycles Day 2

Day 18 – Hard Hitting Review

Day 19 – Jeopardy Review

Day 20 – Unit 3 Exam