

## Lunar Phase Simulator – Student Guide

### Part I: Background Material

Answer the following questions after reviewing the background pages for the simulator.

#### Page 1 – Introduction to Moon Phases

Is there a dark side of the moon? (Note: this question can be effectively answered either yes or no, so it is important to explain your reasoning.)

Yes, there is a dark side of the moon. To us there is a side of the moon we can't see because the moon rotates at the same speed that it rotates around the Earth.

How long does it take the moon to complete one cycle of phases, in days? 29.5 days

If the moon is full today, what phase do you expect it to be at in a week? It will be at the last quarter phase in a week.

How about one month later? Full moon

Many words in astronomy also non-astronomical uses as well. Using your knowledge of how the terms on the left are used in astronomy match them with the nonastronomical uses on the right.

waning	convex, rounded -- also hunch-backed, having a hump
gibbous	to increase in size, quantity, volume, intensity, etc.
waxing	decrease in magnitude, importance, brilliancy, intensity, etc.

*NAAP – Lunar Phase Simulator 1/11*

The following sketches of the moon's appearance were made over about four weeks. Identify the phases and put them in the correct numerical order. One is labeled for you.

Picture	Order	Phase	Picture	Order	Phase
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# Lunar Phase Simulator Student Guide Answers

**Marcel A. Müller**



## **Lunar Phase Simulator Student Guide Answers:**

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