

NAME: _____

PERIOD: _____ LAB #: _____

LAB: THE CHANGING FACE OF THE MOON

Use the MoonCast App on the iPad and the key below to complete the table of moon phases on the back. Sketch how the Moon will appear from Earth on each of the dates. When you are finished, complete the conclusion questions below.

1. How many days pass from one new moon to the next new moon? _____
2. How many days pass between a new moon and a full moon? _____
3. Why do you think it is called a first or last quarter?

4. What happens to the percent of the Moon's face that is illuminated as the phase changes from **waxing** crescent to **waxing** gibbous? _____
5. What happens to the percent of the Moon's face that is illuminated as the phase changes from **waning** gibbous to **waning** crescent? _____
6. Do moon phases appear to be cyclic (a repeating cycle) or random? _____
7. Explain why we see these different phases of the moon each month.

Percent Illuminated	Side of Moon Illuminated	Name of Phase
10-40%	Right	Waxing Crescent
40-60%	Right	First Quarter
60-90%	Right	Waxing Gibbous
90-100%	N/A	Full Moon
60-90%	Left	Waning Gibbous
40-60%	Left	Last Quarter
10-40%	Left	Waning Crescent
0-10%	N/A	New Moon



DATE: Oct. 15, 2012

% ILLUMINATED:

PHASE:



DATE: Oct. 19, 2012

% ILLUMINATED:

PHASE:



DATE: Oct. 22, 2012

% ILLUMINATED:

PHASE:



DATE: Oct. 25, 2012

% ILLUMINATED:

PHASE:



DATE: Oct. 29, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 3, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 6, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 8, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 13, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 18, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 21, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 24, 2012

% ILLUMINATED:

PHASE:



DATE: Nov. 28, 2012

% ILLUMINATED:

PHASE:



DATE: Dec. 3, 2012

% ILLUMINATED:

PHASE:



DATE: Dec. 5, 2012

% ILLUMINATED:

PHASE:



DATE: Dec. 8, 2012

% ILLUMINATED:

PHASE: