MOON PHASES
Session 1: The Four Steps

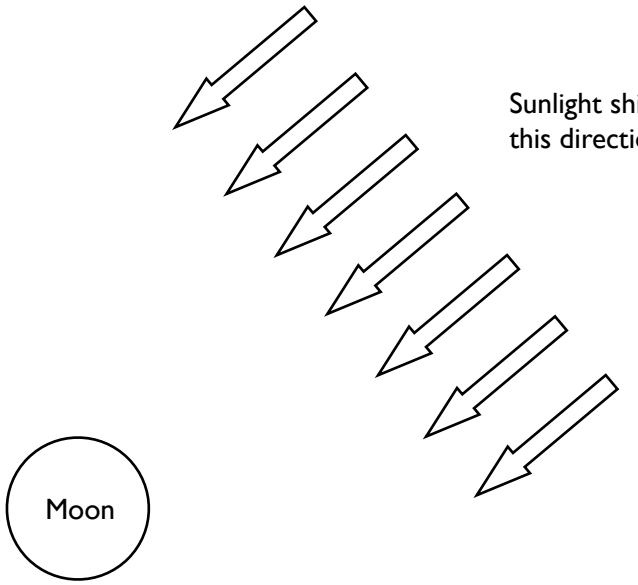
Note: Wait for instructions before you start answering the questions here!

1. How is the Moon lit up?

a. What do you think lights up the Moon? _____

b. The diagram below shows an overhead view of the Moon. **Shade the part of the Moon** that you think will be dark (leave the lit part of the Moon white/unshaded).

overhead perspective
(space-based perspective)



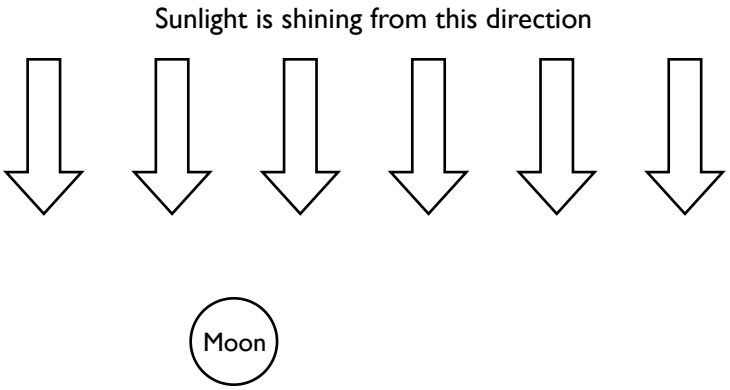
c. How much of the Moon is lit at any time _____
< write as a fraction >

d. Why is the dark part of the Moon dark? (respond below)

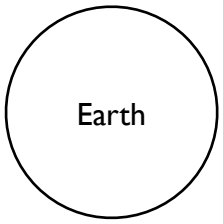
_____

_____

2. Follow 4 STEPS to figure out the Moon's phase



Overhead perspective
NOT to scale



Overhead Perspective (space-based perspective)	
Step 1	**Shade** the part of the Moon (and Earth) that appears dark from overhead.
Step 2	**Draw** a line that divides the Moon into the halves facing Earth and facing away from Earth. **Label** the two sides of the Moon ("facing Earth" / "facing away from Earth").
Step 3	**Describe** the side of the Moon facing Earth. *Circle one of the five choice below* ALL DARK MOSTLY DARK HALF-LIT/HALF-DARK MOSTLY LIT ALL LIT
Earth-Based Perspective	
Step 4	Use the overhead view above to imagine what the Moon looks like from Earth. **Predict** if the light is on the Moon's left or right (when viewed from Earth's Northern Hemisphere). *Circle one of the two choice below* LEFT RIGHT

Earth-Based Perspective:

In the box to the right, **draw** what you think the Moon looks like from Earth (in the Northern Hemisphere).