MC900083175[1]Name: Class Period:

It’s a Phase

Background Knowledge:

Why do you think we see moon phases?

Why is the moon lit?

Moon Phase Simulator:

About how long does it take the moon to complete one **revolution** around the Earth?

When viewing the lunar landmark during the simulation, what do you notice about the moon’s **rotation**?

Moon Phase Transporter:

**Directions:**

1. Take turns placing the Moon Phase Transporter over your heads. While you are “wearing” the Moon Phase Transporter, have someone help you hold it.
2. Start facing position one and then turn yourself (not the transporter) to see positions 2-8. As you see each moon, sketch what you see in the circles below.
3. Once everyone in your group has worn the transporter, complete the questions.

1

2

3

4

5

6

7

8

**Questions:**

1. Where would the sun be in the Moon Phase Transporter?
2. How much of the moon is lit at any one time?
3. How much of the lit moon do you see during a full moon?
4. How much of the lit moon do you see during a **quarter** moon?
5. Go back to your drawing above and label them with the names of the moon phases.

It’s a Phase Conclusions:

Based on the investigations you have completed, explain what causes moon phases in at least three sentences.