Eclipse of the Sun

Strand 6.1 Structure and motion within the Solar System.	**Standard 6.1.1** Develop and use a model of the Sun-Earth-Moon system to describe the cyclic patterns of the lunar phases, eclipses, of the Sun and Moon, and seasons. Examples of models could be physical, graphical or conceptual.	**Big Idea** The moon appears to change shape over time in a cyclical pattern.

Phenomenon: The sun slowly disappears, is totally covered with a shining white light around it, and slowly reappears.

1. Watch the video below of the eclipse of the sun.
    a. https://www.youtube.com/watch?v=dlYahlp7jI4

2. Do the activity on the next page.

Name _____

A Solar Eclipse

1. Watch the video of a solar eclipse. What is the phenomenon?

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2. What are questions that you have now that you have seen the phenomenon?

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3. Develop a way to model how a solar eclipse happens with the Styrofoam balls. Write down notes of your thinking.

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4. Proceed with your model in #3 to show how you think a solar eclipse happens.

5. When you are done, describe what you did, and tell if it worked or not.

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6. Draw a model of what you did with the Styrofoam balls to show how a solar eclipse happens.

Writing a Scientific Explanation
The Claim, Evidence, and Reasoning (CER)

1. What is your **claim** as to how a solar eclipse happens?

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2. From the data (written notes of your model), write **evidences** that support your claim.

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3. Write a reasoning statement that justifies your data and supports your claim.

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4. What pattern do you observe when watching a solar eclipse?

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