Lab sheet: Solar Eclipse Simulation

Materials needed	· Two flashlights · A beach ball or other large ball · A small balloon or ball smaller than the beach ball · Another person to help you hold items · A dark or dim room
Hypothesis – what do you think will happen?	
Procedure	1. In the dark, put one of the flashlights against the beach ball/large ball (the Earth) to light it up. 2. Have another person shine the second light (the Sun) on the beach ball/large ball (the Earth) from a slight distance. 3. Put the balloon/smaller ball (the Moon) in between the flashlight (the Sun) and the beach ball/large ball (the Earth). What do you observe on the Beach ball/large ball (the Earth)?

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Observations *Remember observations can be recorded with pictures, numbers and/or words!	
Conclusions	

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Questions

- How much of the Earth is covered by shadow during a solar eclipse?
- Is the shadow uniform, or does it have darker and lighter areas?
- Explain, in your own words, what a solar eclipse is and how it happens.