Name:	·			_ Period:	Date:
		Sh	nadow Inquir	y Lab	
shadov	ws cast	will investigate how the dift t by objects by using a poir ects to simulate our Earth a	nt source of lig		e from a light source affect on our classroom wall and
1.	qualita	0.5 meters away from light atively describe the shadov Earth:	•		d the size of the shadow and Moon objects.
	b.	Moon:			
2.	-	at this process from 0.75 m Earth:	neters away fr	om our light so	ource.
	b.	Moon:			
3.	-	at this process from 1.0 me Earth:	eters away fro	m our light so	urce.
	b.	Moon:			
4.	_	the information you've coll he shadow looks like?	ected from qu	uestions 1-3, h	now does distance affect
_	<b>.</b>	ovlete e celes - P		on the call to the	D.M. distance and a second second
5.		nulate a solar eclipse, how ve when the objects are co			? vvrite or draw what you

2017 Solar Eclipse path of totality:



**Head Scratcher:** Everyday our sun travels across the sky rising in the East and setting in the West. Every night our Moon travels a similar path, also rising in the East and setting in the West. The apparent motion of both of these planetary bodies is due to the rotation of Earth which rotates East→West. However, during the total solar eclipse of 2017, the shadow of totality will travel across the continental US from Oregon to South Carolina in a West→East direction. How does this happen? Use the lab materials to help explore this idea.