Total Lunar Eclipse Worksheet



On Sunday Sept 27, 2014 starting at 8:07 PM (CDT) a lunar eclipse will start and will be visible from most of the continental US (total from 9:11 to 10:23 pm, then partial again till 11:27 pm). The moon will be in the East. (For viewers on the west coast, it will be near the horizon since will start at 6:07 pm EDT).

What time did you start?	Your Observing Location:
What time did you stop?	Your Observing Partner:

1. **Observation**. About every 10 minutes shade in the darkened region of the Moon that you observe in a circle below (in order) to indicate what the Moon actually looked like. Be sure to also indicate the time you made each observation. **Note**: You do not have to fill in every circle.

Shade in darkened region	1	2	3	4
Enter time				
5	6	7	8	9
10	11	12	13	14
15	16	17	18	19

2.	Lunar eclipse vocabulary. Look up the definition of the following terms:				
	Penumbra				
	Umbra				
3.		id the Moon change to and when? Why does this happen? r uniform across the Moon? Penumbral Partial Total Partial Eclipse Eclipse Eclipse Phases of the Lunar Ec	Per E		
4.	During a luna	r eclipse, what would see if you were standing on the surface of the Moon?			

5. Draw in the **location of the Moon** for each type of eclipse.

Lunar Eclipse	Solar Eclipse
Sun	Sun

6. **Compare and contrast** a lunar eclipse to a solar eclipse. Complete the following table:

	Lunar Eclipse	Solar Eclipse
Describe what is happening		
Phase of the Moon?		
Safety precautions when viewing?		
Estimate the duration of the event		
Estimate the number of people who can view it		