Directions: Go to http://sciencespot.net/, click the link for the Kid Zone, and then click 2017 Solar Eclipse Links in the astronomy section.

Site #1: Eclipse 101 (NASA)

1) When was the last time most Americans experienced a total solar eclipse? _________


   a) In what state will the "path of totality" begin in the United States? ____________________________
   b) In what state will the path end? ____________________________
   c) If you are in the path of totality, what will you see? _________________________________
   d) If you are not in the path of totality, what will you see? _________________________________
   e) For this eclipse, what is the longest period of totality? Where? _________________________________

3) Go to the Safety section to complete these statements.

   a) Looking directly at the sun is __________________ except during the brief total phase of a solar eclipse ("________________"), when the moon entirely blocks the sun’s bright face. This will only happen within the narrow ________ of totality.
   b) Do not use solar filters if they are scratched or ____________________________.
   c) Do not look at the sun using an ______________ camera, telescope, binoculars, or other optical device.
   d) Outside the path of totality, you must ______________ use a safe solar filter to view the sun directly.
   e) If you normally wear eyeglasses, keep them on. Put your eclipse glasses on __________ them.

Site #2: Time & Date Eclipses

1) During which moon phase does a solar eclipse occur? ____________________________

2) During which moon phase does a lunar eclipse occur? ____________________________

3) Where does the Greek word "ékleipsis" mean? _________________________________

4) How many solar eclipses happen each year? ____________________________

5) What is the difference between a total and partial solar eclipse? _________________________________

6) Click "Why are there 3 shadows?" link to describe the difference between umbras, penumbras, and antumbras.

7) How do the different shadows affect an eclipse? _________________________________

What questions do you have about the solar eclipse? Write at least 3 questions in your notebook (on the page below this worksheet.) Challenge your classmates to find the answers!