

Name: _____ Period: _____ Date: _____

Cosmos:

Episode 5: Hiding in the Light

- 1) What are two things Neil deGrasse Tyson says helped us evolve from a band of wandering hunting and gathering ancestors to a global civilization?
- 2) During Ibn Alhazen's time, what was the agreed upon hypothesis of how we see things?
- 3) What must happen to light in order for an image to form?
- 4) What was Alhazen's greatest contribution to science?
- 5) What is the name of the only particle that can travel at the speed of light?
- 6) Where does the word "spectrum" come from?
- 7) What did William Herschel's experiment with light and heat prove?
- 8) Why are organ pipes in the Abbey different lengths?
- 9) What is the difference between light and sound waves as they travel?
- 10) Which color has the lowest amount of energy, and why?
- 11) Why are there dark bands in the spectra Joseph Fraunhofer saw?
- 12) What did Joseph Fraunhofer discover about the elements that make up the universe?