**Astronomy Core Races**

1. What is the Earth’s motion that is a slight change in Earth’s axis?
2. List the colors of visible light from longest to shortest wavelength.
3. What is the order of the Earth, sun, and moon for a solar eclipse?
4. Which of Kepler’s laws relates distance to the sun to length of orbit?
5. Which of Earth’s motions causes night and day?
6. Which wave on the electromagnetic spectrum has the shortest wavelength?
7. What explains how our planet was made?
8. What law states, “galaxies that are farther away move away from us more quickly?”
9. What is the center of our solar system?
10. Put these in order from smallest to largest: galaxy, planet, universe, solar system
11. What explains how the universe was created?
12. What Earth motion causes the north pole to point in different directions?
13. Which wave on the electromagnetic spectrum has the longest wavelength?
14. What color of “shift” do we see when a galaxy is moving away from us?

**Astronomy Core Races**

1. What is the Earth’s motion that is a slight change in Earth’s axis? **Nutation**
2. List the colors of visible light from longest to shortest wavelength.   
   **Red, orange, yellow, green, blue, violet**
3. What is the order of the Earth, sun, and moon for a solar eclipse? **Sun, moon, earth**
4. Which of Kepler’s laws relates distance to the sun to length of orbit? **Third**
5. Which of Earth’s motions causes night and day? **Rotation**
6. Which wave on the electromagnetic spectrum has the shortest wavelength? **Gamma**
7. What explains how our planet was made? **Nebular Hypothesis**
8. What law states, “galaxies that are farther away move away from us more quickly”? **Hubble’s Law**
9. What is the center of our solar system? **Barycenter**
10. Put these in order from smallest to largest: galaxy, planet, universe, solar system   
    **planet, solar system, galaxy, universe**
11. What explains how the universe was created? **Big Bang Theory**
12. What Earth motion causes the North Pole to point in different directions? **Precession**
13. Which wave on the electromagnetic spectrum has the longest wavelength? **Radio**
14. What color of “shift” do we see when a galaxy is moving away from us? **Red shift**