**Syzygy—Fact or Fiction**

**Instructions:** Work with a partner to determine if the following statements are space fact or fiction.

1. The Sun is over 300,000 times larger than earth.
2. Mercury is the hottest planet in our solar system with a surface temperature of over 450° Celsius or 842° Fahrenheit.
3. Footprints and tire tracks left behind by astronauts on the moon will stay there forever as there is no wind to blow them away.
4. Uranus is the only planet that rotates on its side like a barrel.
5. Mars is the only planet that spins backwards relative to the others.
6. It is because of the Sun and Moon’s gravity that we have high and low tides.
7. Pluto is smaller than the earth’s moon.
8. A single night on Uranus lasts 51 years.
9. We know more about space then the deepest part of the ocean.
10. If you shouted in space even if someone was right next to you they wouldn’t be able to hear you.
11. Astronauts cannot burp in space.
12. There is an estimated $2 \times 10^{23}$ stars in space. In English, this is: 200,000,000,000,000,000,000,000,000!