

## 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 than 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!