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Crash Course Astronomy #47: Explore the Solar System

Name: _____ Date: _____

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1. The Sun's core reaches a temperature of _____ million degrees Celsius.
2. Mercury completes one orbit around the Sun every _____ days.
3. _____ has the most elliptical orbit of any planet in our Solar System.
4. Venus has the hottest surface temperature of any planet, at _____ °C.
5. The thick layer of clouds on Venus is made of _____ acid.
6. Earth's crust is thin, but its core is made of dense _____.
7. The Moon is thought to have formed when a small planet collided with _____.
8. The red color of Mars comes from _____ in its rocks and dust.
9. Mars lost its thick atmosphere due to the absence of a _____ field.
10. The region between Mars and Jupiter filled with rubble is called the _____.
11. The _____ on Jupiter is a massive, persistent storm system.
12. Saturn is the least _____ of all the planets in the Solar System.
13. The gaps in Saturn's rings are caused by the gravitational pull of its _____.
14. Uranus's extreme axial tilt of 98° may have been caused by a _____ collision.
15. Neptune is the only planet discovered by _____ prediction rather than direct observation.

Crash Course Astronomy #47: Explore the Solar System KEY

1. The Sun's core reaches a temperature of **15** million degrees Celsius.
2. Mercury completes one orbit around the Sun every **88** days.
3. **Mercury** has the most elliptical orbit of any planet in our Solar System.
4. Venus has the hottest surface temperature of any planet, at **460°** C.
5. The thick layer of clouds on Venus is made of **sulfuric** acid.
6. Earth's crust is thin, but its core is made of dense **metal**.
7. The Moon is thought to have formed when a small planet collided with **Earth**.
8. The red color of Mars comes from **rust** in its rocks and dust.
9. Mars lost its thick atmosphere due to the absence of a **magnetic** field.
10. The region between Mars and Jupiter filled with rubble is called the **asteroid belt**.
11. The **Great Red Spot** on Jupiter is a massive, persistent storm system.
12. Saturn is the least **dense** of all the planets in the Solar System.
13. The gaps in Saturn's rings are caused by the gravitational pull of its **moons**.
14. Uranus's extreme axial tilt of 98° may have been caused by a **glancing** collision.
15. Neptune is the only planet discovered by **mathematical** prediction rather than direct observation.

15 Questions

Answer Key Included

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