1. State whether the planet is a rocky planet or gas giant.

Mercury	Venus	Earth	Mars	Jupiter	
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2. When was the birth of the solar system?

3. T/F The planets are all made of the same stuff but the conditions they formed under where different.

4. Elements in the solar system are like the ingredients in a ______.

- 5. Why are only rocky planets able to form close to the sun?
- 6. What planet lost it's atmosphere and became a barren wasteland?
- 7. What planet heated up tremendously over time?
- 8. There were once thousands of planets in our solar system. True or False?
- 9. The process of small rocks smashing into each other and gaining mass to make bigger rocks is called
- 10. How wide must a rock be to have a chance to turn into a planet?
- 11. Each collision causes the rocks to heat up and melt and then ______ starts to work to make all the heavy materials sink to the middle.



Neptune

Name

Saturn

Uranus

- 12. How can SOLAR WIND (super charged energy particles from the sun) affect astronauts? (Space radiation is serious business!)
- 13. What is the Earth's protection from the solar wind? What would happen if we didn't have it?
- 14. What did the rovers Spirit and Opportunity find evidence for on the surface of Mars? What is the evidence?
- 15. Why did the gas giants become so huge?
- 16. The larger the gas giants got the more ______ they have.
- 17. Jupiter and Saturn have over _____ moons each. They formed from the massive amounts of gas and dust that the planets were able to collect because of their gravity.
- 18. All gas giants have rings. True or false?
- 19. What is the theory for where the rings came from?
- 20. Why won't Saturn ever have more and larger moons?
- 21. What is the proof that gas giants have magnetic fields?
- 22. _____ and _____ are the two important forces in planet building. But ______ is also extremely important.
- 23. The Earth is actually quite a dry planet. True/False