## **Chapter 1 The Nature of Science YSBAT**

- 1. Meteorology
- 2. Paleontology
- 3. SI units
- 4. Describe scientific notation
- 5. Geology
- 6. Oceanography
- 7. Hypothesis
- 8. Astronomy
- 9. Hydrosphere
- 10. What is the control in an experiment?
- 11. What is the constant in an experiment?
- 12. Describe Earth's crust
- 13. Describe Earth's mantle
- 14. Describe Earth's core
- 15. Independent variable
- 16. Dependent variable
- 17. Describe ways in which Earth's biosphere and atmosphere interact.

18. Be sure you know the basic units and what they measure. Hint: page 6 of notes.

19. Describe the scientific method

- 20. What is the percentage of  $CO_2$  in Earth's atmosphere?
- 21. What percent of the Earth's water is salty?
- 22. What percent of the Earth's water is fresh?
- 23. Convert the following into scientific notation.
  - 3,000,000,000 = \_\_\_\_\_ 4270 = \_\_\_\_\_
  - .189 = \_\_\_\_\_.000934 = \_\_\_\_\_
- 24. Convert the following from scientific notation.
  - $4 \ge 10^6 =$  \_\_\_\_\_  $2.35 \ge 10^2 =$  \_\_\_\_\_
  - $1 \times 10^{-6} =$ \_\_\_\_\_  $3.2 \times 10^{-8} =$ \_\_\_\_\_
- 25. What do geochemist study?
- 26. Give 3 reasons that an understanding of the dynamic nature of the planet Earth is important. Hint: page 4 of notes.
  - of notes.
- 27. What is the composition, in percent, of the gases that surrounds the Earth?
- 28. Converting kelvins (K) to Celsius (C)

 $278K = \____°C$   $250K = \___°C$ 

- 29. What is the formula for density?
- 30. What is the formula for Newtons (N)?
- 31. What is the difference between mass and weight?