

Date _____ Class _____ Name _____

1 – Basic Chemistry and Water

Directions: Answer the following questions completely using your notes and book.

1. What are the states of matter?

2. What is the cause for the difference among these states of matter?

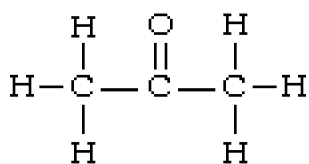
3. What are the building blocks of matter? _____.

4. Electrons contain a (n) _____ charge.

5. The nucleus of an atom contains the _____ and the _____.

Answer the following questions based on the diagram 1.1.

Diagram 1.1



6. What does the C represent in the chemical compound? _____.

7. How many protons does the element C contain? _____.

8. What does the H represent? _____.

9. How many electrons does the element H contain ? _____.

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10. What do the lines between the H and C represent?

11. What is an ion? _____

12. How are positive ions formed?

13. What is a covalent bond?

14. What is an ionic bond?

15. _____ is the chemical formula for water.

16. What is the densest form of water? _____

17. Why does ice float?

18. Define pH? _____

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19. If a substance is acidic its pH must be less than _____.

20. How much stronger is a substance with a pH of 5 than one with a pH of 7?

_____.

21. If a substance has a pH of 10 it is said to be a (n) _____.

Use your periodic table to help answer the following questions. Calculate the atomic mass of the following chemical compounds:

22. CO_2 _____

23. H_2SO_4 _____

24. HNO_3 _____

25. NaCl _____