Final Exam Review Questions

1. Would hot syrup have low viscosity or high viscosity?

2. What element does the chemical symbol Mg stand for?

3. What are solute, solvent, and solution?

4. What is a physical change? What would be an example of a physical change?

5. When matter is heated, what happens to its particles? What happens to the particles when matter is cooled?

6. Which moves faster, particles that make up a solid or particles that make up a gas?

7. What type of bond occurs when atoms share electrons? What type occurs when atoms either give up or take electrons?

8. What are the horizontal rows of the periodic table called? What are the vertical rows called?

9. What are the chemical symbols for calcium, oxygen, bromine, and xenon? Are they metals or nonmetal or metalloids?

10. An acid produces what type of ions? A base produces what type of ions?

11. If a substance has a bitter taste and a slippery feel it is a \_\_\_\_\_\_\_\_\_\_\_\_\_. If it has a sour taste it is an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

12. If heat energy is released in a chemical reaction, what type of reaction is occurring?

13. If an atom of the same element has different numbers of neutrons, it is called an \_\_\_\_\_\_\_\_\_\_. If an atom has different numbers of electrons it is called an\_\_\_\_\_\_\_\_\_\_\_\_.

14. If matter spreads evenly throughout its container and all the particles are free to move in any direction, the type of matter is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. Is it a chemical change or a physical change that occurs when a log burns in a fire?