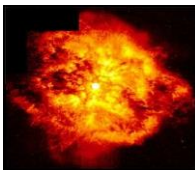


Name: _____

Science _____

Date: _____

States of Matter WS



Key Concepts:

* Matter can exist in 4 phases: liquid, solid, gas, & plasma.

*Boyle's Law & Charles's Law together are called the gas laws. The gas laws describe the behavior of gases with changes in pressure, temperature & volume.

I. Vocabulary Skills: Use your knowledge of this unit to answer the questions with *complete sentences*.

1. What is a physical property? _____

2. List 5 physical properties of matter. _____

3. What are the 4 phases of matter? _____

4. Which of these are the most common on the Earth? _____



5. Which of these are the most common in the universe? _____

6. What is one way an amorphous solid related to a liquid? _____



7. What is viscosity? _____

8. Using a *t-chart*, give at least 4 examples each of substances with high viscosity & low viscosity.

II. Phases of Matter: Complete the chart.

Phase	Arrangement of Particles	Movement of Particles	Definite Shape? (yes or no)	Definite Volume? (yes or no)
SOLID	Closely packed			
LIQUID				
GAS		Very rapid		



III. Relationships: Determine which of the following statements represent an inverse (opposite) or a direct.

- _____ 1. The greater the number of hours worked, the more money earned.
- _____ 2. The greater a car's speed, the farther it travels in one hour.
- _____ 3. The more hours you sleep in a day, the fewer hours you are awake.
- _____ 4. The greater number of cars on the road, the greater the chances of an accident.
- _____ 5. The more people who enter a contest, the less chance I have of winning.

IV. The Gas Laws: Continuing the Main Ideas: Illustrate Boyle's Law and Charles's Law by using the following symbols to complete the charts: Increases: ↑ Decreases: ↓

Boyle's Law

Pressure	Volume



Charles's Law

Temperature	Volume

