

Name: \_\_\_\_\_ Period: \_\_\_\_\_

**Extra Credit Assignment (25 points)**

1. Fill in the table below: (3 points)

	Holds Shape(HS) or becomes Shape of Container (SC)	Fixed Volume (FV) or Volume of Container (VC)
Solid		
Liquid		
Gas		

2. What are three things that happen to a gas when it is heated up in terms of: (3 points)

- a. Space between molecules: \_\_\_\_\_
- b. How fast the molecules are moving: \_\_\_\_\_
- c. How much kinetic energy the molecules have: \_\_\_\_\_

3. Write the definition of temperature: (1 points)

\_\_\_\_\_

\_\_\_\_\_

4. What is the difference between thermal energy and heat? (1 points)

\_\_\_\_\_

\_\_\_\_\_

(1 point each)

5. Convert to Celsius:            5F     =     \_\_\_\_\_

6. Convert to Fahrenheit        50C   =     \_\_\_\_\_

7. Convert to Kelvin            20C   =     \_\_\_\_\_

8. Write the definition of specific heat: (1 points)

\_\_\_\_\_

\_\_\_\_\_

9. Does water have a relatively high or low specific heat?(1pt) \_\_\_\_\_

10. What are the three ways that heat can be transferred? **Give a definition of each:** (3 points)

- a. \_\_\_\_\_:
- b. \_\_\_\_\_:
- c. \_\_\_\_\_:

11. What are the three gas laws we learned about in class. Fill in the table below: (9 points)

Name of Law	Two Variable involved (pressure, temp. volume)	The mathematical equation	Directly or inversely proportional	Video (#14 explains)
1.				
2.				
3.				

12. Look up youtube videos that demonstrate these three laws that we did not watch in class.

Explain what happened in each video