

Blitz, Unit 17, Form D-H

Name _____ Period _____

This is a Take Home Exam. You may use your Notes, PowerPoint, or Text on this exam but NO help from human beings!

You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES:

1. Describe **ten** of the fifteen *shocks* of Vapor Pressure and Boiling Point and explain them.
2. DESCRIBE a way to demonstrate that fog, clouds, and "steam" are liquid droplets and not water vapor.
3. EXPLAIN *regelation* of ice and TWO of its uses.
4. EXPLAIN how "Duckie" works (TWO principles).
5. Using an EQUATION show that boiling is a cooling process. Explain.
6. DEFINE boiling point and *vapor pressure* and give an example.
7. Find the total number of calories needed to change 18.5 g of ice at -31.2°C to steam at 127.0°C . . Show all FIVE steps. The heats are: c for ice is $0.5 \text{ cal/g}\cdot\text{C}^{\circ}$, H_f for ice is 80 cal/g , c for water is $1 \text{ cal/g}\cdot\text{C}^{\circ}$, H_v for water is 538 cal/g , H_v for water vapor is $0.5 \text{ cal/g}\cdot\text{C}^{\circ}$.
8. TELL how THREE FACTORS will shift the equilibrium.
9. Define *sublimation* and give two examples.
10. DISCUSS TWO ways to boil a liquid and give an example of each.

When finished, please STAPLE this exam onto your papers and turn in on due date.