

Name _____

Date _____

Period ____

Number ____

Unit 3-1 Physical & Chemical Changes

Changes in matter can be physical or chemical. A **physical change** occurs when there is a change in the shape, color or state of matter. The matter you started with is the SAME matter that you ended with.

A **chemical change** occurs when there are changes occurring involving chemical reactions. The matter you started with is DIFFERENT than the matter you ended with.

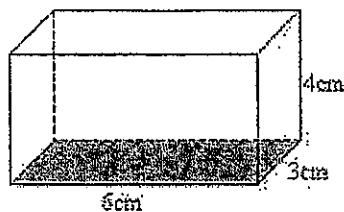
Directions: Write P for a physical change and a C for a chemical change.

1. _____ glass breaking
2. _____ hammering wood together to build a playhouse
3. _____ a rusting bicycle
4. _____ melting butter for popcorn
5. _____ freezing chocolate covered bananas
6. _____ Separating sand from gravel
7. _____ burning toast
8. _____ spoiling food
9. _____ water evaporating from a pond
10. _____ fireworks exploding
11. _____ frying an egg
12. _____ pouring milk on your cereal

REVIEW

Directions: Calculate the volume and the density for each problem below. SHOW ALL WORK!
Volume = $L \times W \times H$ Density = mass/volume

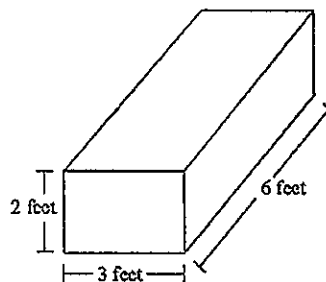
Mass = 216g



Volume = _____

Density = _____

Mass=72lbs



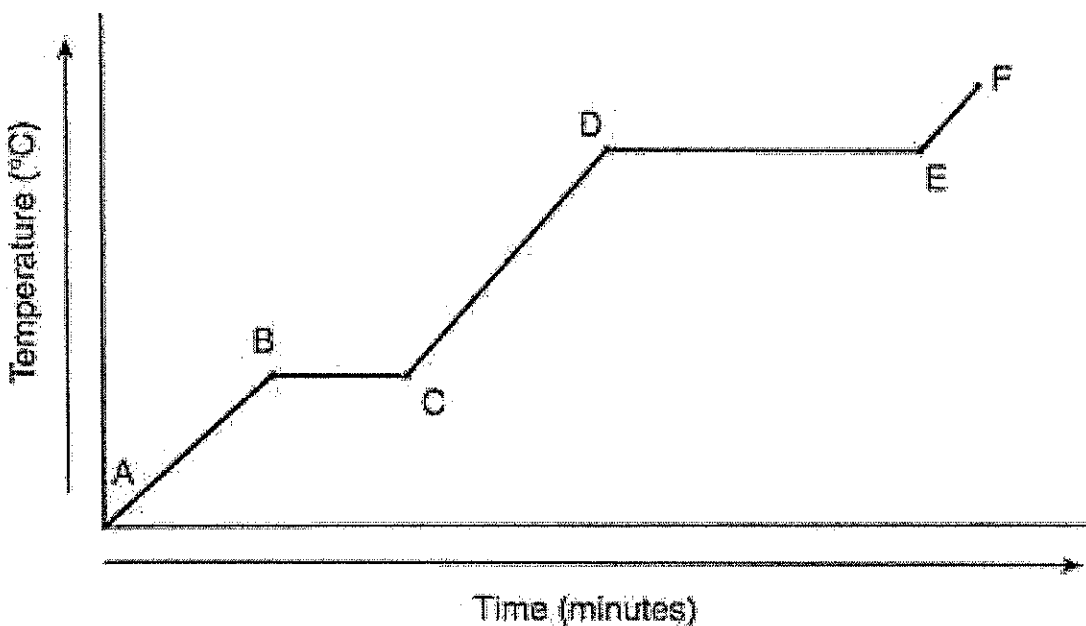
Volume _____

Density = _____

Name _____

Date _____

Melting and Freezing HW



- 1) In the diagram above, what state of matter is A → B? _____
- 2) In the diagram above, what state of matter is C → D? _____
- 3) In the diagram above, what state of matter is E → F? _____
- 4) What phase change is occurring from B → C? _____
- 5) What phase change is occurring from C → B? _____
- 6) What is happening to the temperature from A → B? _____
- 7) What is happening to the temperature from B → C? _____
- 8) What is happening to the temperature from C → B? _____
- 9) What is happening to the temperature from B → A? _____
- 10) As temperature increases, do particles spread out or move closer together? _____
- 11) As temperature decreases, do particles spread out or move closer together? _____
- 12) As temperature increases, do particles move faster or slower? _____
- 13) As temperature decreases do particles move faster or slower? _____
- 14) As we go left on the heating curve, do we gain (absorb) or lose energy? _____
- 15) As we go right on the heating curve, do we gain (absorb) or lose energy? _____