

Chapter 2 Study Guide

Name: _____

NB p. _____

Single/Science

1. List 5 physical properties of matter.
2. List 5 chemical properties of matter.
3. Describe the difference in a physical & chemical change.
4. Define each:
 Solid—
 Liquid—
 Gas—
5. List 6 properties of matter that can be used to identify a substance.
6. Describe 3 physical methods of separating mixtures.
7. Complete:

Term	Definition	Example	Gains or loses energy?
Melting			
Freezing			
Condensation			
Evaporation			
Boiling			
Sublimation			
Deposition			

8. Match the following examples with the appropriate process (use the terms in #7 as your word bank). Also, write an “L” in the left margin if the process involves losing energy & an “G” if it involves gaining energy.
- Melted candle wax cools & hardens—
 - Ice cubes in the freezer shrink or disappear—
 - A puddle of water dries up slowly in the sunlight—
 - Heated water forms bubbles of water vapor inside it—
 - Water in a freezer becomes an ice cube—
 - Ice becomes liquid water—
 - Ice becomes water vapor—
 - Water vapor becomes water droplets—
 - Grass wet with dew slowly dries in the morning sun—
 - As a solid heats up, its particles gain enough energy to move away from each other—
 - A piece of dry ice (frozen carbon dioxide) gets smaller at room temperature—
9. State whether each is a physical or chemical change:
- Rolling a ball of clay into a flat shape—
 - Shredding a piece of paper—
 - Baking a loaf of bread in the oven—
 - Cooking a scrambled egg—
 - Melting an aluminum can—
 - Nails rusting—
 - Silver tarnishes—
 - Apples ripen—
 - Dead tree leaves decompose—
 - Burning leaves—
 - Grape juice stains a shirt—
 - Atomic bonds break & new bonds form—
 - Dissolving salt in water—
10. Calculate density:
- 24 mg & 48 L
 - 14 mL & 42 g
 - 98 g & 20 mL
11. Observe the following graph and answer the questions:
- Which has the highest melting point?
 - Which has the lowest melting point?
 - What is the difference in the melting points of lead and aluminum? Be specific; write a numeral for your answer.
 - Which are frozen at room temperature?