Chapter 12

Lesson 3: What are the States of Matter?

States of Matter

Guide Questions

1. What are some solids other than ice?
2. What are some liquids other than water?
3. What are some gases other than water vapor?
4. Is water still water in all its states? How do you know?
5. What causes matter to exit in the three different states?
6. Draw and study Figure on page 577.
7. Why is the balloon inflated over than last flash and not the first two?
8. Suppose you inflate a balloon with warm air and then take the balloon to a cold place. What will happen to the balloon? Why?

Changes of State

Guide Questions

1. Define:
2. Melting Point
3. Boiling point
4. Does every element and compound have a melting point and a boiling point? Explain
5. What is the difference between boiling and evaporating?
6. What process cause changes of state?
7. What happened to the atoms and molecules when you add heat to things?
8. What happened to the atoms and molecules when you remove heat to things?
9. What happened to gases, when cooled below the boiling point?
10. What happened to liquids, when cooled below the melting point?
11. Under high pressure, gases form liquids. Explain
12. Liquids under low pressure become gases at temperature lower than the usual boiling point. Explain
13. What is sublimation? Give an example.
14. From the table on page 579:
15. Which of these five substance has the lowest melting point?
16. Which has the lowest boiling point?
17. Which are liquid at a room temperature of 22oC?
18. Why doesn’t gold exist in all three states at ordinary temperature on earth?

Review for Test

1. Read and study Chapter 12: Lesson 3: What are the States of Matter?

Page 572-581

2) Read and study Guide Questions in the notebook.

3) Review, Study and enjoy our class website:

<http://room201csa.weebly.com/states-of-matter.html>