Year 7 Science: Expansion, density, and why ice floats

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Why do railway lines have small gaps between sections of track?

2. A solid block of chocolate sinks when dropped into melted chocolate. What does that tell you about the density of solid chocolate?

3. A 200 g ice block melts in a sealed bag. What is the mass of the water afterwards?

4. A student says that when water boils, its particles grow bigger to make steam. Correct the student.

5. Why does a can of fizzy drink left in the freezer sometimes burst?

Fix the mistake

6. Correct this statement: "Things expand when heated because the particles themselves get bigger."

7. Correct this statement: "Ice floats because it has air bubbles trapped in it."

8. Correct this statement: "When water evaporates, its mass is destroyed."

9. Correct this statement: "Ice has a bigger volume than the water it came from, so it must have more mass."