

**Section 3 ■ Properties of Matter**

Directions: Change the italicized word in each statement to make the statement correct.

- _____ 1. Orange juice and milk are both *solids*.
- _____ 2. Matter with atoms in a fixed position in relation to one another is in the *liquid* state.
- _____ 3. The way a substance reacts with another substance is a *physical* property.
- _____ 4. An object's density is equal to its mass divided by its *length*.
- _____ 5. The *size* of an object determines whether it will float in water.
- _____ 6. Density and state of matter are *chemical* properties.
- _____ 7. *Liquids* fill their entire container regardless of the container's size or shape.
- _____ 8. *Hydrogen* is the only substance that occurs naturally on Earth as a gas, a liquid, and a solid.
- _____ 9. The *physical* properties of a liquid do not change when it becomes a gas.
- _____ 10. Molecules in the *gas* state are strongly attracted to each other, but can change positions.
- _____ 11. A lightning bolt is an example of matter in a *gaseous* state.
- _____ 12. When thermal energy is added to ice, the rate of movement of its molecules *decreases*.
- _____ 13. Ice floats in liquid water because it is less *heavy* than water.
- _____ 14. On Earth matter occurs in *five* physical states.

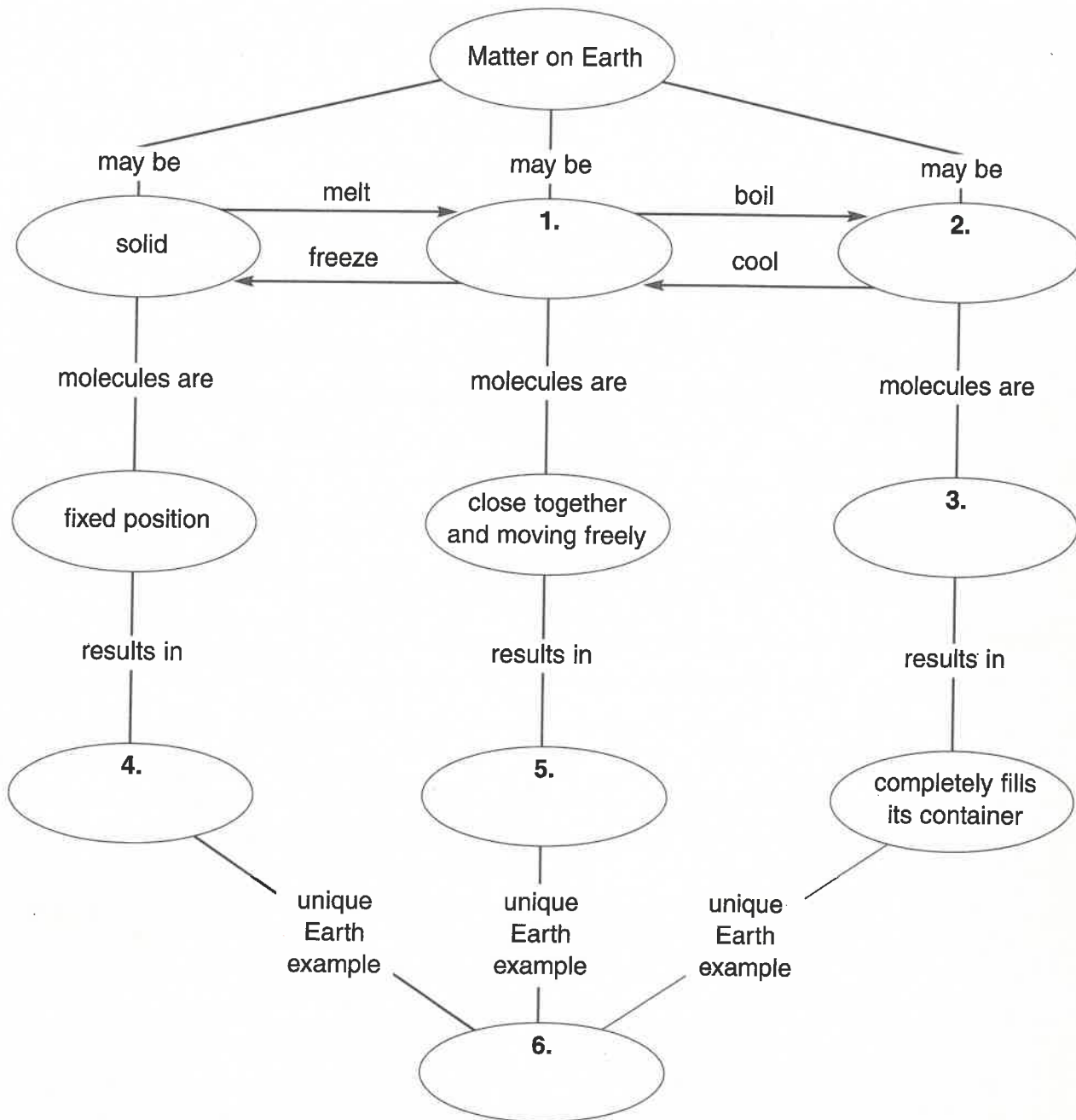
SECTION
3

Reinforcement

Properties of Matter

Directions: Complete the concept map using the terms in the list below. Pay particular attention to the linking words or statements between boxes. The completed diagram will help you organize the relationships between physical states of matter on Earth.

liquid **definite size and shape** **gas**
freely moving and independent **takes the shape of its container** **water**



Meeting Individual Needs