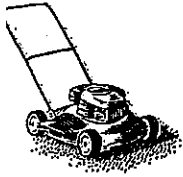


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per: \_\_\_\_\_

## TWO WAYS TO CHANGE!

A melting ice sculpture...a spectacular bonfire...a cake baking in the oven...a milkshake in the making...an explosion...all of these involve changes in matter. Some are physical changes (changes in shape, color, or state) and others are chemical changes (changes involving chemical reactions). Which are which? For each change described below, write a **P** for physical change or **C** for chemical change. Be ready to explain your choices!



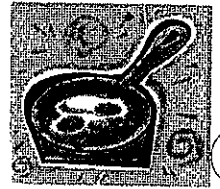
1. \_\_\_\_\_ glass breaking
2. \_\_\_\_\_ hammering wood together to build a playhouse
3. \_\_\_\_\_ a rusting bicycle
4. \_\_\_\_\_ melting butter for popcorn



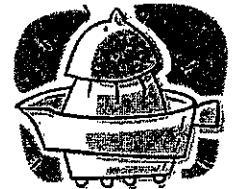
5. \_\_\_\_\_ glassblower creating sculptures out of glass
6. \_\_\_\_\_ freezing chocolate-covered bananas
7. \_\_\_\_\_ separating sand from gravel
8. \_\_\_\_\_ spoiling food
9. \_\_\_\_\_ burning toast
10. \_\_\_\_\_ making salt water to gargle for a sore throat



11. \_\_\_\_\_ mixing lemonade powder into water
12. \_\_\_\_\_ cream being whipped



13. \_\_\_\_\_ water evaporating from a pond
14. \_\_\_\_\_ cutting grass
15. \_\_\_\_\_ burning leaves
16. \_\_\_\_\_ humidifier putting moisture into the air
17. \_\_\_\_\_ corroding metal



18. \_\_\_\_\_ bleaching your hair
19. \_\_\_\_\_ fireworks exploding
20. \_\_\_\_\_ squeezing oranges to get juice
21. \_\_\_\_\_ frying an egg
22. \_\_\_\_\_ pouring milk on your oatmeal



# 1-3 What are the states of matter?

## Lesson Review

Decide which phase of matter each statement describes. Write *solid*, *liquid*, *gas*, or *plasma* in the space provided.

- \_\_\_\_\_ 1. It has a definite shape and volume.
- \_\_\_\_\_ 2. It has no definite shape or volume.
- \_\_\_\_\_ 3. Its particles are tightly packed together.
- \_\_\_\_\_ 4. It has a definite volume but no definite shape.
- \_\_\_\_\_ 5. It is rare on Earth but plentiful in other parts of the universe.
- \_\_\_\_\_ 6. Its particles can move freely to all parts of a container.
- \_\_\_\_\_ 7. Its particles can change position by sliding past each other.
- \_\_\_\_\_ 8. The only movement of its particles is vibration.
- \_\_\_\_\_ 9. It is found at very high temperatures and pressures.
- \_\_\_\_\_ 10. A container of this substance is always completely full.

## Skill Challenge

**Skills:** *observing, organizing, classifying*

Look around your classroom. List 8 substances that you can see or feel. Classify each substance as a solid, a liquid, or a gas. Organize your information in a table.