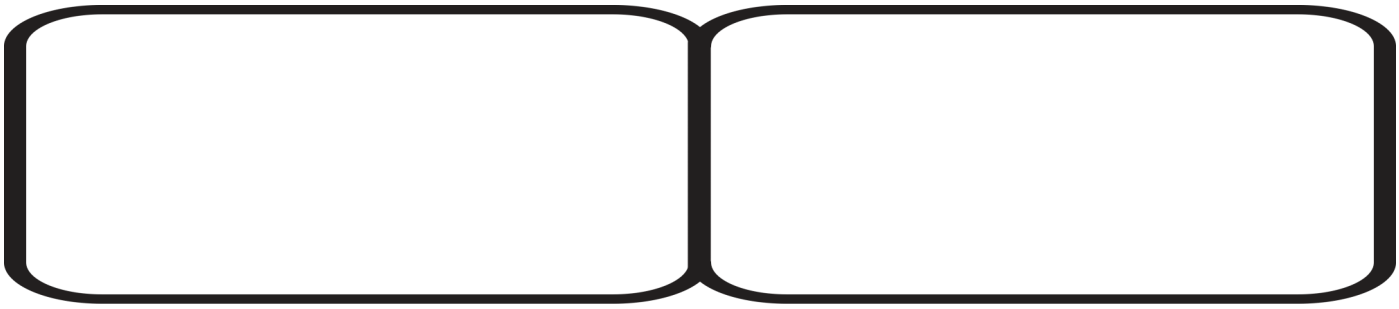
Physical and Chemical Changes Notebook

What are the two basic types of changes matter can undergo?



In a physical change, what changes? _____

_____

Does the substance itself change in a physical change? _____

Illustrate an example of a physical change.



What is a boiling point? _____

_____

What is a freezing point? _____

_____

What is a melting point? _____

_____

SAMPLE

What kind of change is it when water freezes into ice cubes, melts into liquid water, or boils and changes into water vapor?

_____

What is a condensation point? _____

_____

What is sublimation? _____

_____

What are four substances that can undergo sublimation?



What part of baking a cake is a physical change? What part is a chemical change?

_____

_____

_____

What is a chemical change? _____

_____

_____

SAMPLE

What are two of the substances that change when you bake a cake? _____

_____

_____

What are bubbles often a sign of? _____

_____

Are chemical changes permanent or temporary? _____

_____

When you burn wood, does it undergo a physical change or a chemical change?

_____

What does a fire give off that is another sign of a chemical change? _____

_____

When iron rusts, what changes that is another sign of a chemical change?

_____

Illustrate what happened in the experiment in the unit when baking soda an vinegar were combined. Summarize the basic steps in the experiment below. *(Remember not to try any experiment without a parent or teacher's permission because some can be very dangerous.)*

SAMPLE

Now summarize what happens chemically in the experiment and illustrate the chemical makeup of baking soda and acetic acid.



SAMPLE

What causes an apple to turn brown? _____

What protects the inside of an apple from oxygen? _____

What happens when the peel is broken? What is formed, and how does the apple change color?

_____

_____

_____

_____

_____