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## **STUDENT HANDOUTS**

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MINI POSTERS

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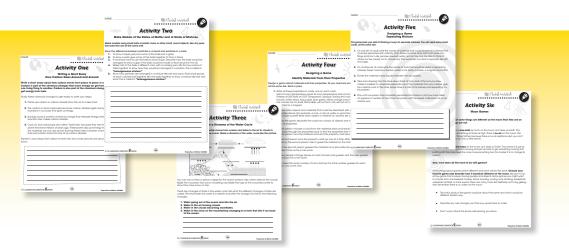
# FREE! 6 Bonus Activities!

3 EASY STEPS to receive your 6 Bonus Activities!

• Go to our website:

www.classroomcompletepress.com\bonus

- Click on item CC4504 Properties of Matter
- Enter pass code CC4504D



### A none 0 **B** one **C** two **D** three c) What kind of change or changes are happening when water goes over a waterfall? A neither a chemical change nor a physical change 0 0 **B** a physical change only **C** a chemical nange onl D both a physical change e and a chemical change Write a word in each blank to complete the sentences. a) Flames nge is taking place. **b)** Hydrogen and Oxygen react to form \_\_\_

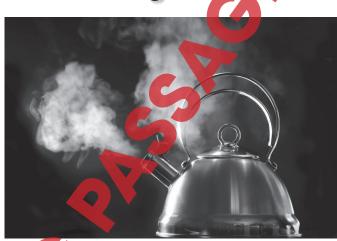


NAME:

## Physical Changes vs. **Chemical Changes**

e learned that **chemical** changes cause new materials to be formed.

What do we mean by *new*? Earlier, we read that particles, called **atoms**, sometimes fasten together to form larger particles, called **molecules**. Sometimes atoms get **rearranged** and fastened in a new way to form different molecules. This is a chemical change. In a physical change, the particles are the same before and after the change.



After You Read

When clouds begin to form in a clear, blue sky, it looks like a new material is being formed. This is not true. The air is full of many water molecules that we cannot see. They are the gas called water vapor. When they come together to form tiny drops, a cloud appears. This is a physical change because the water molecules did not change. They just went from the gas state to the liquid state.

When hydrogen gas burns, it combines with oxygen gas to form water. This is a chemical change because a new material is formed. Atoms in hydrogen and oxygen molecules come apart. Then, they fasten together in a new way and form water molecules.

Another example of a chemical change is rust forming on an iron nail. First, oxygen molecules come apart The new material i. Then the oxygen atoms fasten onto iron atoms and form a new material. s rust. Rust has the chemical name, iron oxide.

These two examples are both chemical changes because atoms have been rearranged to form new molecules.

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•••••
Physical Changes vs.
Chemical Changes

3.	Use the words "atoms" and "molecules" to explain what happens when a new material is formed during a chemical change.
4.	Describe a change you could see that could be either a chemical change or a physical change.
) ) )	

#### Extensions and Applications

5. Change In the Kitchen

for ways that materials could change or be made to change using the tools and appliances you see.

List three physical changes that could happen in the kitchen. Explain why they are physical changes and not chemical changes. For each change tell whether the material that changes could be returned to the way it was.

List three chemical changes that could happen in the kitchen. Explain why they are chemical changes and not physical changes. For each change tell what new material was formed. For each change tell whether the material that changes could be returned to the way it was.

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molecules.

c) Chemical changes always change the way

return to the way is was, the change was probably a \_

d) Adding heat causes a material to change. If removing heat causes the material to

\_ are stuck together in

Properties of Matter CCP4504-5

## Finding Changes In the Kitchen

A picture of a kitchen and kitchen appliances is shown below



#### Many physical and chemical changes take place in the kitchen.

#### One physical change is shown by the box and arrow.

- 1. Look at the picture carefully. How many places you can find in the kitchen where physical and chemical changes can happen? You may want to read some things about the science of cooking to help you understand the changes better.
- and arrows like the one above to show where the changes you found take place.
- poxes, tell whether each change is a **chemical change** or a **physical change**.
- 4. Tell the cause of as many changes as you can. For example, many changes in a hen are caused by adding or removing heat.
- hink you will need more room, copy the picture of the kitchen and paste it onto arger piece of paper. You may also use a picture like it cut from a magazine or





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NAME:

## Comprehension Quiz

### Part A

#### Circle **1** if the statement is TRUE or **1** if it is FALSE.

- 1) Mass is a property of matter
- 2) Atoms and particles are two kinds of molecules
- 3) When water boils, it changes into a new materic
- 4) You would have less weight on the moon than you do on Earth.
- 5) Smashing a pumpkin is a chemical char
- 6) When salt dissolves in water, it fair
- 7) Chemical changes cause of the fasten together a different way.

#### Part B

#### Put a check mark next to the answer that is most correct.

- 1) When water changes from a gas to a liquid it is called
  - A boiling
  - 0 **B** condensation
  - 0 **C** evaporation **D** freezing
- 2) Which is a property of glass?
  - A It is soluble
  - **B** it is opaque
  - **C** it is flammable
  - **D** it is transparent
- 3) Which tool could be used to separate sugar from water?
  - **A** a screen
  - **B** a refrigerator
  - **C** a kitchen stove
  - **D** a bucket of water

**SUBTOTAL:** 

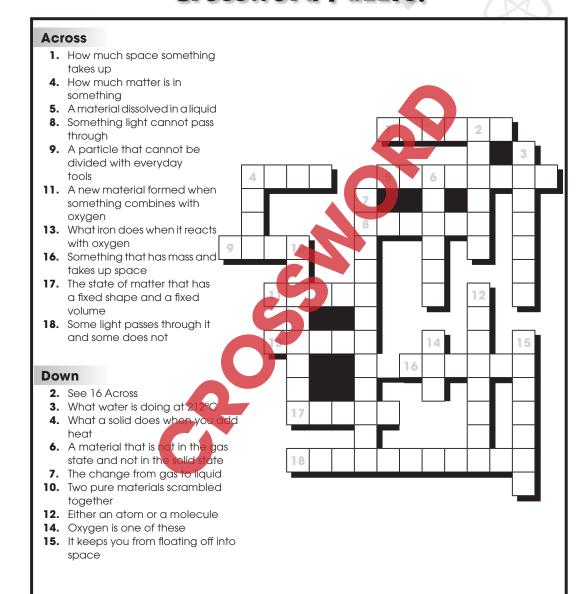
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Reading Passage

### **Crossword Puzzle!**

NAME:



# Particles In Two Kinds

Sugar particles in solution Water molecule water particles sugar particles Sugar molecule



Sand grain

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Sugar grain

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NAME:	

## After You Read



## Physical Changes vs. **Chemical Changes**

- 3. Use the words "atoms" and "molecules" to explain what happens when a new material is formed during a chemical change.
- **4.** Describe a change you could see that could be *either* a chemical change or a physical change.

### Extensions and Applications

5. Change In the Kitchen

book around a kitchen for ways that materials could change or be made to change using the tools and applic

List three physical changes that could happen in the kitchen. Explain why they are physical changes and not chemical changes. For each change tell whether the material that changes could be returned to the way it was.

List three chemical changes that could happen in the kitchen. Explain why they are chemical changes and not physical changes. For each change tell what new material was formed. For each change tell whether the material that changes could be returned to the way it was.





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3. Atoms are connected in new ways to form new molecules.

Answers will vary



**4.** Possible answers: color change, bubbles, volume change



no iron left, but oxygen from the air combined with the iron and added to the mass.

**D.** Yes, because the mass gained by the rusting iron equaled the mass lost by the air.





