## Contents

## © TEACHER GUIDE

- Assessment Rubric ........................................................................................ 4
- How Is Our Resource Organized? ................................................................ 5
- Bloom's Taxonomy for Reading Comprehension ............................................. 6
-Vocabulary ...................................................................................................... 6


## (3) STUDENT HANDOUTS

- Reading Comprehension

1. What Is Matter?
2. Three States of Matter
3. Physical Properties of Matter
4. Physical Changes of Matter
5. Physical Changes vs. Chemical Changes
6. Chemical Changes and Chemical Properties
7. Mixtures and Solutions................................................................................... 7

- Hands-on Activities ....................................................................................... 11
- Crossword ..................................................................................................... 15
- Word Search ................................................................................................ 16
- Comprehension Quiz .................................................................................. 17

EEV EASY-MARKING ${ }^{\mathrm{TM}}$ ANSWER KEY ........................................................... 19

MINI POSTERS ........................................................................................ 21

## 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


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( 1
Properties of Matter CCP4504-7



## Mixtures and Solutions

1. Put a check mark next to the a
a) Which material is a mixture?



You learned earlier about an important chemical change that takes place in PLANTS Plants turn carbon dioxide and water into oxygen and food molecules. Our bodies get energy from the food molecules. Do you know where the plants get the energy they put in the food? All that energy comes from the sun
The scientific name for this reaction is photosynthesis. A material in plants called chlorophyll soaks up the sun's energy. The plant uses the energy from the sun in the photosynthesis reaction. Chlorophyll is green. It is what makes most plants green. Whereve you see green in a plant, photosynthesis can happen

## Experimen

For this experiment, you will need a small sheet of paper. It should be thick enough so that light cannot shine through it. You will also need something to cut the paper and some tape.
You are going to make a pattern on a leaf. To make the pattern, you will blocking some light from the leaf and let some light shine on the leaf. Where light hits the leaf it will be green

## Steps:



1. Cut holes in a piece of paper to make a word or picture that you want to see on the leaf. You could cut out the letters of your name; or, if you are very patient the word nthesis". Remember, whatever you cut out will have patient, the wo
to fit on a leaf,
2. Find a large, strong leaf that gets sunlight. Tape the paper with the cut-out word or picture to the side of the leaf that gets the sun. Put it on so that the leat is completely
3. Every few-darys, peek under the paper to see if the picture or word is starting to show up.
4. Whenyou have a good picture, remove the leaf and bring it to school,

On the Internet, you can see pictures like this made by an artist by searching for "chlorophyll art"!
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14 Reading PassaGe
NAME:
Crossword Puzzle!

```
Across
    1. How much space something
        takes up
    4. How much matter is in
        something
    A ma
        Something light cannot pass
        hrough
        particle that cannot be
        divided with everyday
    tools
    11. A new material formed when
        something combines with
        oxygen
        What iron do
        with oxygen
    takes up space
        space
        The state of matter that has
        a fixed shape and a fixed
        volume
        8. Some light passes through it and some does not
```


## Down

```
2. See 16 Across
3. What water is doin
```



```
A material that is not in the gas The change from gas to liquid
10. Two pure materials scrambled together
2. Either an atom or a molecule
14. Oxygen is one of these
15. It keeps you from floating off into space
```



15
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NAME


Answer each question in complete sentences

1. Describe the motion of particles in each state of matter.
2. Using the words "mass," "space," and "atoms," tell three things that are true of all matter.
3. What does the density of a material tell about the way particles are packed in a material? Name the two things you need toknow to find the density of a material.
4. What is a physical change? Give an example of a physical change. What is a chemical change? Give anexample of a chemical change.
5. Explain how a mixture of salt and water is different from a mixture of pebbles and water.

## Mixtures and Solutions

3. What is a mixture?
4. What does solubility mean?

## Extensions \& Applications

## 5. Separating a Mixture

Suppose you have a mixture of sand, marbles, sawdust, and blocks of wood. You can separate these four things with a window screen, a bucket, and water. This will take three steps.
The screen is used in the first step.
The bucket and water is used in the second and third steps.
a) Describe the three steps.

Step One

## EASY MARKING

## Step Three

b) Which properties of the materials made it possible to separate the mixture?
$\qquad$ ANṠWER KEY
second experiment,
no iron left, but oxygen from the air combined with the iron and
D. Yes, because the mass gained by the rusting ron equaled the mass
Answers will vary lost by the air.

11
12
13

