

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

Mrs. Schroeder, Mr. Kirby

Science 7

## Physical and Chemical Changes in Matter Webquest

### TASK #1

Read about Physical/Chemical Change and take notes from the website below.

[http://nobel.scas.bcit.ca/chem0010/unit2/2.3\\_changes.htm#](http://nobel.scas.bcit.ca/chem0010/unit2/2.3_changes.htm#)

1. What is a physical change?

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2. Name 3 examples of physical changes.

a.

b.

c.

3. What is a chemical change?

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4. Name 3 examples of chemical changes.

a.

b.

c.

## TASK #2

Go to [http://www.chem4kids.com/files/matter\\_chemphys.html](http://www.chem4kids.com/files/matter_chemphys.html)

After reading the information at this site answer these questions

How can you cause a physical change?

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What would be an example of a chemical change that took a long time to occur?

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Why are chemical changes considered "unseen"?

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## TASK #3

Go to <http://www.mcwn.org/chemist/pcchange.html>

And complete these questions

Can a physical change, change what a substance is? Explain your answer by giving an example.

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Why can't chemical changes be reversed? Explain your answer by giving an example.

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#### TASK #4

Go to the following website and read the info about chemical and physical changes and try to add some new information about each by answering the questions. <http://antoine.frostburg.edu/chem/senese/101/matter/faq/physical-chemical.shtml>

What new information can you add to your definition of physical change?

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What new information can you add to your definition of chemical change?

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#### TASK #5

**Melting/heating Experiment - This one is a challenge. You can start it from beginning as many times as necessary to help you see the change in temperature.**

<http://www.harcourtschool.com/activity/hotplate/index.html>

Once on this site, select the pink or the green material.

(Circle which one you selected.)

Pink

Green

What was the melting point? \_\_\_\_\_

What was the boiling point? \_\_\_\_\_

Do you think the melting and boiling point is the same for the other material? \_\_\_\_\_

Try it out!! Considering what you know about matter, why do you think that different substances have different melting and boiling points?

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## TASK #6

How pizza goes through your digestive system at <http://yucky.discovery.com/noflash/body/pg000126.html>

and answer the following questions:

1. What starts chemical changes in food?
2. Are the following Physical or chemical changes?
  - \_\_\_\_\_a. The teeth tear off a bite of pizza.
  - \_\_\_\_\_b. The starch in the pizza crust turns to sugar.
  - \_\_\_\_\_c. Muscles squeeze the chewed pizza down your esophagus.
  - \_\_\_\_\_d. In the intestines, liquids from the kidneys and pancreas mix with leftovers from the stomach.
  - \_\_\_\_\_e. Water is recycled back into your body.

## TASK #7

Look at the rock cycle at these two sites.

<http://www.cotf.edu/ete/modules/mse/earthsysflr/rock.html>

<http://www.rocksandminerals.com/rockcycle.htm>

Are the following physical or chemical changes?

1. Weathering:
2. Deposition:
3. Metamorphism:
4. Melting:

## TASK #8

Take this quiz to test your knowledge on physical/chemical changes:

<http://www.quia.com/quiz/303980.html>

SCORE: \_\_\_\_\_%

Adapted from H Cleaveland at <http://sciencespot.net/Media/statesofmatter.pdf>