Name:

Date:

Period:

**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?
2. Name 3 examples of physical changes. a.

b.

c.

1. What is a chemical change?
2. 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?

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

Why are chemical changes considered “unseen”?

# TASK #3

**Go to** [**http://www.mcwdn.org/chemist/pcchange.html**](http://www.mcwdn.org/chemist/pcchange.html)

**And complete these questions**

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

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

# 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-](http://antoine.frostburg.edu/chem/senese/101/matter/faq/physical-chemical.shtml) [chemical.shtml](http://antoine.frostburg.edu/chem/senese/101/matter/faq/physical-chemical.shtml)

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

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

# 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**](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?

# TASK #6

**How pizza goes through your digestive system at** [**http://yucky.discovery.com/noflash/body/pg000126.html**](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/msese/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>