Name: _____ Period: _____ Date: _____

Chemical & Physical Changes Web Quest

WEBSITE 1) http://vital.cs.ohiou.edu/steamwebsite/downloads/ChangeLab.swf

1. What is the definition for a chemical change?

2. What is the definition for a physical change?

Example	Chemical or Physical	Reason
Glass		
Fireworks		
Water freezing		
Photosynthesis		
Snowman		
Homework		
Volcano		
Penny		
Soda can		
Cake		
Tree		
Pot of water		

Total correct: _____ **Chemical Correct:** _____ **Physical Correct:** _____

WEBSITE 2) http://www.glencoe.com/sites/common_assets/science/virtual_labs/E03/E03.html

How are physical and chemical changes distinguished?

Procedure:

1. Select one of the four events and view the video. You can stop the video at any point and watch it as many times as you need to.
2. Click the Play/Pause, rewind & fast forward button when needed.
3. Use your observations to check all the items on the Observations Checklist (on the screen). When all items are checked, decide whether the changes you observed represent a physical or chemical change of matter.
4. Click the Physical Change or Chemical Change button
5. Record your observations in the Table.
6. Select another event to observe. Watch the remaining 3 events & analyze the data.
7. Complete the Journal questions.

Observations Table:

	Event 1	Event 2	Event 3	Event 4
Describe matter prior to change				
Describe shape change				
Describe bubbles formed				
Describe odor produced				
Describe heat given off				
Describe size change				
Describe change of state				
Describe new substance formed				
Describe sound produced				
Describe light produced				
Is it a physical or chemical change?				

Journal Questions:

Question 1: Is evaporation of water a physical change or chemical change? Explain your answer!

Question 2: List three clues that indicate that a chemical change has taken place.

Question 3: Give an example of a chemical change that you encounter every day.

Question 4: Explain how a burning candle can demonstrate both a physical and chemical change.