**Physical vs. Chemical Changes**

**Science 7 Worksheet**

**Name:**

**PREDICT: (before the video)**

1) Watch the **video** posted on the **website** to review the differences between physical and chemical changes. Think back to the lesson last class for more information.

2) **Predict** whether the following reactions are Physical Changes or Chemical Changes. Type your answers in and with 1-2 sentences, explain why.

**a) Frying an egg.**

**b) Candle wax melting.**

**c) A volcano erupting.**

**d) The digestion of food.**

**e) Someone smoking.**

3) When your teacher directs you, discuss the above predictions with a partner.

4 When your teacher directs you, OBSERVE these reactions by watching the videos on the website. You do not need to listen to the sound, just watch what is happening.

**EXPLAIN: (after the videos)**

5) After discussing with a partner and watching the videos, are there any changes that you would like to make to your predictions? If so, please do so below. If you do not have any changes to make and you are confident that your predictions are true, copy and paste your final predictions/answers below.

**a) Frying an egg.**

**b) Candle wax melting.**

**c) A volcano erupting.**

**d) The digestion of food.**

**e) Someone smoking.**

**DISCUSS: (Add some notes about what your classmates share)**

**APPLY: Apply what you have learned to answer the following questions. Please answer in sentence form.**

**Follow-up Questions**

1. Why are chemical changes difficult to reverse?
2. Name two physical changes and tell why they are physical changes.
3. Name two chemical changes and tell why they are chemical changes.
4. Describe a new situation in which you are unsure of if it is a physical or chemical change. Why are you unsure? Does it have characteristics of both? Describe those characteristics.
5. What are some ways that you could investigate the physical or chemical changes in Question 4?
6. Using your concept mapping skills, create a **concept map** with the following words provided for you. You may add additional words, but you must link the following words with “linking phrases”. You may draw this on paper, use the Paint program on your computer or use the Cmap program that we have practiced with.

* Physical Change
* Chemical Change
* Non-reversible
* Reversible
* New Substances are formed
* Phase Change
* Solid
* Liquid
* Gas
* Heat or light is released