

Name: _____

**HW4:2 Physical vs. Chemical
Mr. Murray, IPC**

**Assigned: Mon., 11/6 and Tues. , 11/7
Due: Wed., 11/8 and Thurs. , 11/9**

Period: _____

1. Physical or Chemical change? And give your evidence?
 - A. ____ Burning paper? Why?
 - B. ____ Two liquids mix and change color? Why?
2. $Mg_3(PO_4)_2 + 6NaCl \rightarrow 2 Na_3(PO_4) + 3MgCl_2$
 - A. Circle the first reactant.
 - B. Name the second product: _____
 - C. How many $Na_3(PO_4)$ molecules are there?
 - D. How many Oxygen atoms are there in $(PO_4)_2$?
3. Endothermic or Exothermic?
 - A. ____ A reaction gets cold.
 - B. ____ A reaction gets hot.
4. When something dissolves, is that a chemical change? Why or why not?
5. Reactants are on the _____ side.
6. Products are on the _____ side.
7. What does the arrow mean?

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8. A person mixes chlorine beach and ammonia. What happens?
9. What is "wafting"? And how do you do it?
10. Is digestion a physical or chemical change?
11. DNA, mRNA, or tRNA? (Could be more than one, too.)
 - A. Composed of nucleic acids:
 - B. Has uracil:
 - C. Stored in the nucleus:
 - D. The end product of transcription:
 - E. Tells the ribosomes which amino acids to manufacture:
 - F. Has guanine:
 - G. In translation mRNA is converted into:

LAB CONCLUSION STATEMENT—On separate piece of paper write a conclusion statement that gives scientific proof whether the different combinations of chemical produced a physical or chemical change. You MUST state whether each combination resulted in a chemical or physical change and WHY? (the proof is VERY important). - This will be another HW grade.