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| *Five reactions & Review Naming*  CλeMis+ry: http://genest.weebly.com  Stop in for help every day at lunch and Tues &Thurs after school! | **Pele vs. Belgium 1968** | Name\_\_\_\_\_\_\_\_\_  Period\_\_\_\_\_\_\_\_ |

*Predict the products for the following reactions then balance the equation,*

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|  |  | Write the complete reaction as a **balanced** reaction. |
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| (combustion of C4H10) |  | \_\_\_\_\_\_ + \_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_ + \_\_\_\_\_\_\_ |
| (combination)  pure calcium reacting with pure fluorine to just a single product |  | \_\_\_\_\_\_ + \_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_ |
| (combination)  calcium chunks and bromine liquid react to form a single solid substance (write the phases before you balance it) |  | \_\_\_\_\_\_ + \_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_ |
| (single replacement)  Na + CaSO4 🡪 ? + ? |  | \_\_\_\_\_\_ + \_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_ + \_\_\_\_\_\_\_ |
| (Double Replacement)  AlBr3 + K2SO4  🡪 ?? + ?? |  | \_\_\_\_\_\_ + \_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_ + \_\_\_\_\_\_\_ |
| (Single Replacement)  CuCl2 + Al 🡪 ?? + ?? |  | \_\_\_\_\_\_ + \_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_ + \_\_\_\_\_\_\_ |

Did you remember to balance the six reactions above?

**Chemical reactions either absorb or give off energy. This can be shown by writing energy as a reactant or product.** Which of the two ways below would best describe this change of energy for a combustion reaction? (this is new for us – just make your best guess and we’ll give the answer tomorrow)

1. CH4 + 2O2 + **energy** 🡪 2H2O + CO2
2. CH4 + 2O2 🡪 2H2O + CO2 + **energy**

When ammonium nitrate dissolves, the solution feels cold to touch.

Which of the two ways below would best describe this change of energy?

1. NH4NO3(S) ) + **energy** 🡪 NH4(aq) + NO3(AQ
2. NH4NO3(S) 🡪 NH4(aq) + NO3(AQ) + **energy**

You’re not finished yet. Make sure you also (1) get the lab ready to hand in Friday and (2) re-do old worksheets to get ready for the Friday Quiz