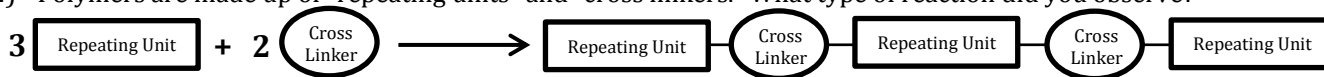


TASK #1 - Silly putty – a polymer TYPE OF REACTION: _____

- 1) Silly putty is a “polymer.” What is a polymer? Yes – you can use your phone to look it up 😊
- 2) Polymers are made up of “repeating units” and “cross linkers.” What type of reaction did you observe?



- 3) Was there an indication of a chemical reaction occurring? How were you able to tell?
 - 4) If you could not observe a sign of a chemical reaction occurring, why do you think this was the case?
-

TASK #2 – Splitting water TYPE OF REACTION: _____

- 1) Write out a balanced equation for the reaction that was observed.
 - 2) How were you able to split the water? What did you use to break the molecule apart?
-

TASK #3 - Formation of a solid TYPE OF REACTION: _____

- 1) Write out a balanced equation for the reaction that was observed.
 - 2) “Soluble” means that a compound dissolves in water. “Insoluble” means that it will be a solid precipitate in water. Using the solubility table in the classroom which product was the precipitate in your reaction?
-

TASK #4 - Copper to zinc penny TYPE OF REACTION: _____

- 1) Write out a balanced equation for the reaction that was observed.
 - 2) If we had replaced the copper penny with a gold coin, would you expect the reaction to still occur?
 - 3) Rewrite your equation showing how to make a gold plated penny.
-

TASK #5 – Burning methane TYPE OF REACTION: _____

- 1) Write out a balanced equation for the reaction that was observed.
 - 2) A car engine burns octane (C₈H₁₈), would the products formed by burning octane in your car be different from the products you made by burning methane (CH₄) in this task? Why or why not?
 - 3) Write a balanced equation for the combustion of octane.
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