

## Topic 8 - Reaction Rate

- A catalyst was used in an experiment. The effect that the catalyst had was ...
  - There was no effect at all
  - The reaction happened faster
  - The reaction happened slower
  - The reaction produced more products
- Enzymes are catalysts used in our body to break down food. Without the presence of enzyme the reactions in our body would ...
  - require much higher temperatures
  - produce different substances
  - happen more quickly
  - not occur at all
- Some substances are used in foods to slow down decomposition. Plant seeds prevent germination until the right conditions are present by these natural ...
  - reactors
  - enzymes
  - catalysts
  - inhibitors
- By crushing a tablet of medicine before you take it, you are changing the reaction rate by changing the ...
  - temperature
  - surface area
  - concentration
  - a catalyst
- Corrosion protection involves protecting metal from contact with the environment and the factors that affect the reaction rate of this chemical reaction. Coating a corrosive metal with a thin layer of zinc is called ...
  - galvanization
  - sterilization
  - electrolysis
  - electroengineering
- $$\begin{array}{ccccccc} & \text{H} & \text{H} & \text{H} & & & \\ & | & | & | & & & \\ \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{H} & & \text{( Propane C}_3\text{H}_8 \text{ )} \\ & | & | & | & & & \\ & \text{H} & \text{H} & \text{H} & & & \end{array}$$

The burning of propane (  $\text{C}_3\text{H}_8$  ) in a barbeque is an exothermic reaction that produces heat to cook the food. If the heat is too intense, the products being cooked (will be burnt) will be changed into.

  - hydrocarbons
  - hydrogen dioxide
  - carbon monoxide
  - pure carbon
- Burning fossil fuels (such as propane) produces carbon monoxide, carbon dioxide, sulfur oxides, nitrogen oxides, smoke, soot, ash and heat. These products are called ...
  - pesticides
  - pollutants
  - combustibles
  - hydrocarbons