**GPS – What do you know?**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_

1. What four factors affect the rate of reactions?
2. What are two ways heat can interact with a reaction?
3. WHY does a higher temperature speed up the rate of reaction?  
   *When the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ goes up, the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between particles goes up, and so the reaction goes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*
4. What 3 main catalysts are used frequently in industry?
5. WHY does a higher surface area speed up the rate of reaction?  
   *When the surface area increases, there are \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ available to collide. Since there are \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the reaction goes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*
6. What do we call the minimum amount of energy needed to activate a reaction?

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