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| **Graph 1:**  Draw the following graph on your paper.     1. Put a star (★) on your graph where the enzyme is working **optimally**. 2. **Circle** on your graph where the enzyme is denatured and write “D”. | 1. Which kind of organic molecule are enzymes examples of? |
| 2. What is the job of an enzyme? |
| 3. What does it mean when an enzyme has **denatured**? What are the two ways to **denature** enzymes? |
| **Graph 2:**  Draw the following graph on your paper.     1. Put a star (★) on your graph where the enzyme is working **optimally**. 2. **Circle** on your graph where the enzyme is denatured and write “D”. | 1. What does the word optimal mean? |
| 2. What does it mean that enzymes are **specific**? |
| 3. What three letters will you always find at the end of the name of an **enzyme**? And what about **carbohydrates**? |
| **Graph 3:**  Draw the following graph on your paper.     1. Put a star (★) on your graph where the enzyme is working **optimally**. 2. **Circle** on your graph where the enzyme is denatured and write “D”. | 1. What sugar does the enzyme **sucrase** break down? |
| 2. Draw the pH scale. Label acids, bases and neutral. |
| 3. At what pH is this enzyme denatured?  At what pH is this enzyme working optimally? |