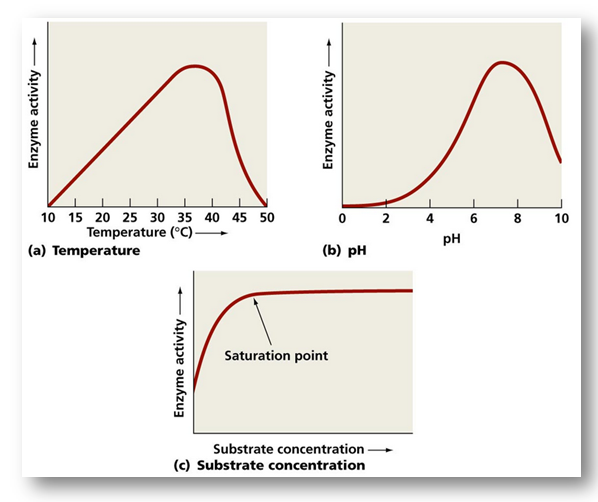
Lab Quiz 1

1. Watch the following video: <https://www.khanacademy.org/science/biology/water-acids-and-bases/hydrogen-bonding-in-water/v/water-as-a-solvent>
   1. From the video, draw 5 water molecules, note their positive and negative partial charge, and note the hydrogen bonding with a dashed line.
   2. From the video, draw one sodium ion and one chlorine ion and draw the interactions of 3 molecules of water with the sodium ion and 3 water molecules with the chlorine ion.
   3. Explain how adding sodium chloride to water would change its ability to dissolve substances.
2. Look at the following graphs:



* 1. At what temperature and pH is there the most enzyme activity?
  2. Enzymes speed the rate of a chemical reaction. At what temperatures are no products being formed with the help of the enzyme? Explain your answer.

1. Watch the following video: <https://www.youtube.com/watch?v=SrON0nEEWmo>
   1. Why can’t the sugar go through the egg’s membrane but water can?
   2. Why do diabetics experience symptoms like increased thirst and increased frequency of urination?