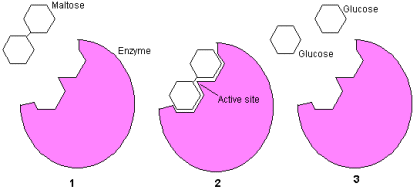
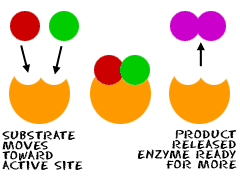
Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour;\_\_\_\_

**Enzymes**

**Enzymes are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Catalysts are \_\_\_\_\_\_\_\_\_ that \_\_\_\_\_\_\_\_ up \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Think of enzymes (catalysts) as the \_\_\_\_\_\_\_\_\_\_\_\_\_ in chemical reactions
  + They are just helpers so they \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_
  + They are affected though by
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (too few or too many)
    - \_\_\_\_\_\_
    - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - Salinity (\_\_\_\_\_\_\_\_)
* They help chemical reactions by doing one of the following
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ up the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a molecule into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ parts
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ up the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (building) of \_\_\_\_\_\_\_\_\_\_\_ molecules into \_\_\_\_\_\_\_\_\_\_ ones
* There are three parts to an enzyme catalyzed reaction
  + \_\_\_\_\_\_\_\_\_\_\_ (has a very specific active site where the molecules “dock”)
  + \_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_



**Activation Energy: the \_\_\_\_\_\_\_\_\_\_\_\_\_ needed to \_\_\_\_\_\_\_\_\_\_\_\_ a chemical reaction**

* By using a catalyst you can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the activation energy

