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

