

# Enzymes!

## The Tony Award Winning Play by Mr. McCullough's Biology Class

Enzymes function in very specific ways. Enzymes are perhaps the most important proteins in our bodies and responsible for many of our most basic functions. We will see what can affect the rate of enzymes next class, but first we must establish that we all understand how enzymes work. With a partner, please research enzymes online. Add to the information already provided in class. There are many good websites, some of which I have listed below. Feel free to use the ones given or any other trusted sites you can find. With your partner, please answer the following questions. When you are done with that, please get together with another group and design a skit demonstrating exactly how an enzyme functions. You may be as creative as possible, but please make sure to hit the points listed below. Have fun and good luck. See Rubric for more details.

Good enzyme websites: (when viewing animations, please keep the sound low)

<http://www.rsc.org/education/teachers/learnnet/cfb/enzymes.htm>

[http://highered.mcgraw-](http://highered.mcgraw-hill.com/sites/0072495855/student_view0/chapter2/animation_how_enzymes_work.htm)

[hill.com/sites/0072495855/student\\_view0/chapter2/animation\\_how\\_enzymes\\_work.htm](http://highered.mcgraw-hill.com/sites/0072495855/student_view0/chapter2/animation_how_enzymes_work.htm)

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[http://www.chem4kids.com/files/bio\\_enzymes.html](http://www.chem4kids.com/files/bio_enzymes.html)

<http://www.emc.maricopa.edu/faculty/farabee/BIOBK/BioBookEnzym.html>

<http://www.northland.cc.mn.us/biology/biology1111/animations/enzyme.swf>

Questions to answer with partner (on a separate piece of paper)

What is the end product of an enzyme reaction?

Why are enzymes useful?

Where do the reactions of an enzyme take place?

What is a catalyst?

Draw an example of an enzyme working.

Points to hit in your skit: (skits should be no more than 2 minutes)

-Active sites

-Catalysts

-Substrates

-Products

-Inhibitors

Timeline:

Set up: 5 minutes

Research with partners: 20-25 minutes

Set up skits: 15 minutes

Perform skits for Mr. McCullough OR class: 15 minutes.