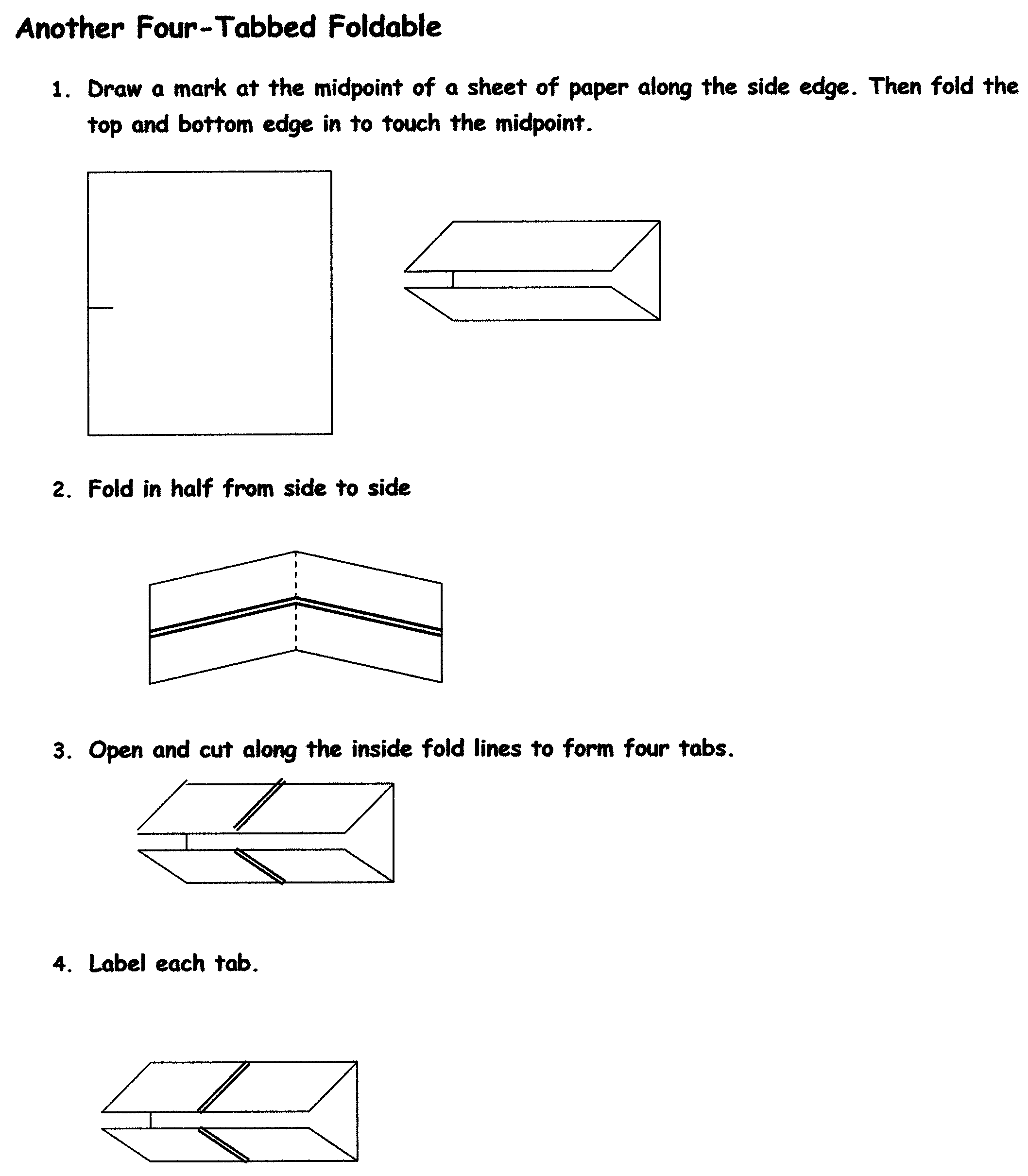
**Enzyme Foldable Instructions**

**Steps:**

1. Use this foldable pattern to create a four-tab, shutter fold as shown below**.**

Tab 2

Tab 1

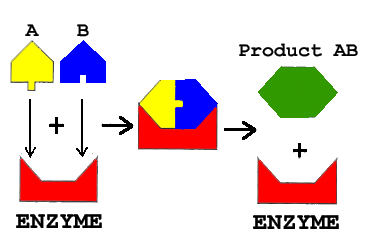
****

Tab 3

Tab 4

1. On the **FRONT** of each tab, draw and color the 4 general steps of enzyme activity using the sketch below. Color the enzyme RED, substrate A – YELLOW, substrate B – BLUE, and the product GREEN.

SUBSTRATES



**2**

**ENZYME-SUBSTRATE COMPLEX**

**4**

**3**

**1**

1. On the **BACK** of each tab, list the following from your notes or search online for answers:
   1. Tab 1 – Meaning of enzyme, substrate, & active site
   2. Tab 2 – Explanation of induced fit
   3. Tab 3 – Factors that affect enzyme action (3 to 4 factors)
   4. Tab 4 – Examples of biological enzymes (3 to 4 examples)
2. On the **CENTER FOLD(the wall behind the four tabs)**, write **ENZYME CHARACTERISTICS** and then **bullet** each of these answers:
   1. Enzymes are **HIGHLY SPECIFIC**!
   2. Enzymes are **REUSABLE!**
   3. Enzymes are **BIOLOGICAL CATALYSTS!**
   4. Enzyme are **FRAGILE – ABLE TO BE DENATURED EASILY!**

!!!The most important feature of an enzyme is its **SHAPE**!!!

* 1. Enzymes work in **ONE DIRECTION OR THE OTHER, BUT NOT BOTH!**

1. **Make sure you put your name and hour on it someplace before turning it in.**