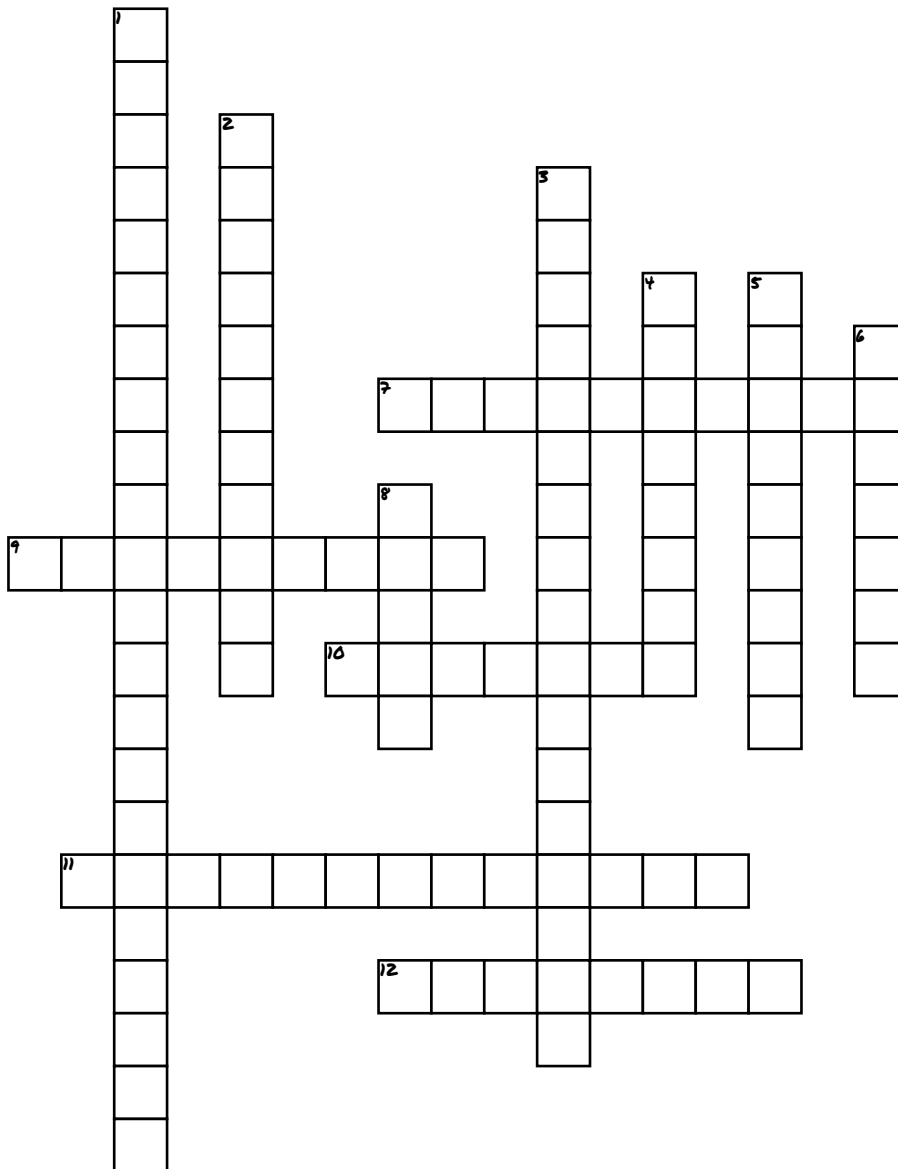


# LOCK AND KEY + INDUCED FIT HYPOTHESIS



## ACROSS

7. ENZYMES LOWER THE \_\_\_\_\_ ENERGY OF A REACTION

9. WHAT IS THE NAME OF THE REACTION WHEN THE SUBSTRATE IS BROKEN IN TO SMALLER PRODUCTS

10. WHAT KIND OF ENERGY DO ENZYMES AND SUBSTRATE MOLECULES HAVE?

11. THE SHAPE OF THE ACTIVE SITE IS \_\_\_\_\_ TO THE SUBSTRATE

12. IN THE LOCK AND KEY HYPOTHESIS, WHAT KIND OF BONDS FORM BETWEEN THE SUBSTRATE MOLECULE AND THE ACTIVE SITE

## DOWN

1. WHAT IS FORMED WHEN A ENZYME AND SUBSTRATE JOIN

2. \_\_\_\_\_ INTERACTIONS BIND THE SUBSTRATE MOLECULE TO THE ENZYME'S ACTIVE SITE

3. WHAT STRUCTURE OF THE ENZYME'S ACTIVE SITE ALLOWS THE SUBSTRATE TO FIT INTO IT

4. WHAT IS THE NAME OF THE REACTION WHEN THE PRODUCT IS BUILT INTO A LARGER PRODUCTS

5. THE SUBTLE CHANGES OF SHAPE HAPPEN TO THE SIDE CHAINS OF THE \_\_\_\_\_

6. INDUCED FIT- THE PRESENCE OF A SUBSTRATE MOLECULE NEAR AN ENZYME \_\_\_\_\_ A SHAPE CHANGE IN THE ENZYME

8. THE INDUCED-FIT HYPOTHESIS SUGGESTS THAT AN ENZYME IS A \_\_\_\_\_ STRUCTURE