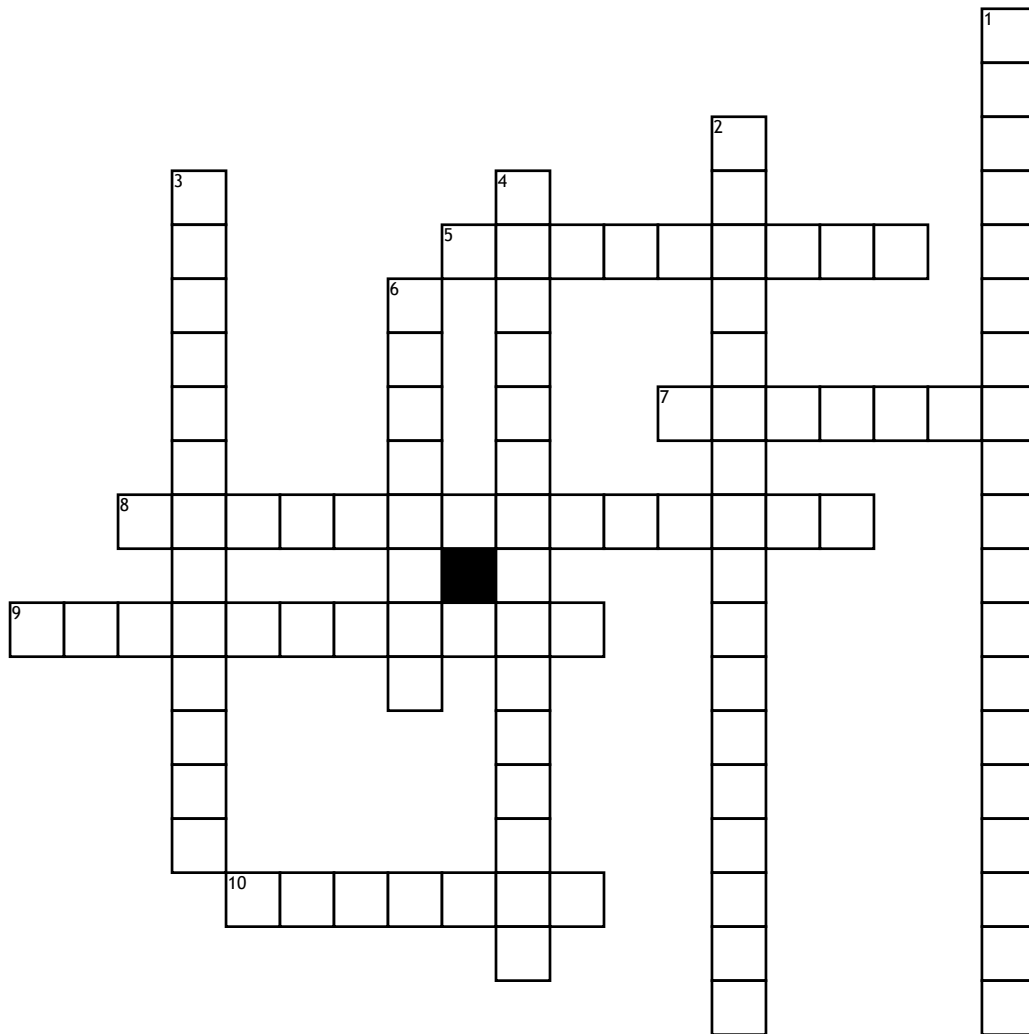


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# LAC OPERON CROSSWORD PUZZLE



## Across

5. This plus glucose will make lactose
7. This is one of the things that the lac operon DOESN'T like, but it still takes it to get out the little glucose it has
8. Although its function is unknown, it does help out with the lac operon
9. This is where the RNA polymerase binds onto the DNA
10. This is the only thing that the lac operon will accept

## Down

1. Produces this to bind with the operator and inhibits transcription because it blocks the RNA polymerase
2. Encodes this, which cleaves lactose into its monomers glucose and galactose
3. This is a step in the making of proteins (CENTRAL DOGMA)
4. Encodes this, which brings the lactose into the bacterial cell
6. This is responsible for turning the lac operon ON and OFF

## Word Bank

TRANSCRIPTION  
BETA GALACTOSIDASE  
OPERATOR  
GALACTOSE

LACTOSE PERMEASE  
GLUCOSE  
LAC REPRESSOR PROTEIN

LACTOSE  
TRANSACETYLASE  
LAC PROMOTER