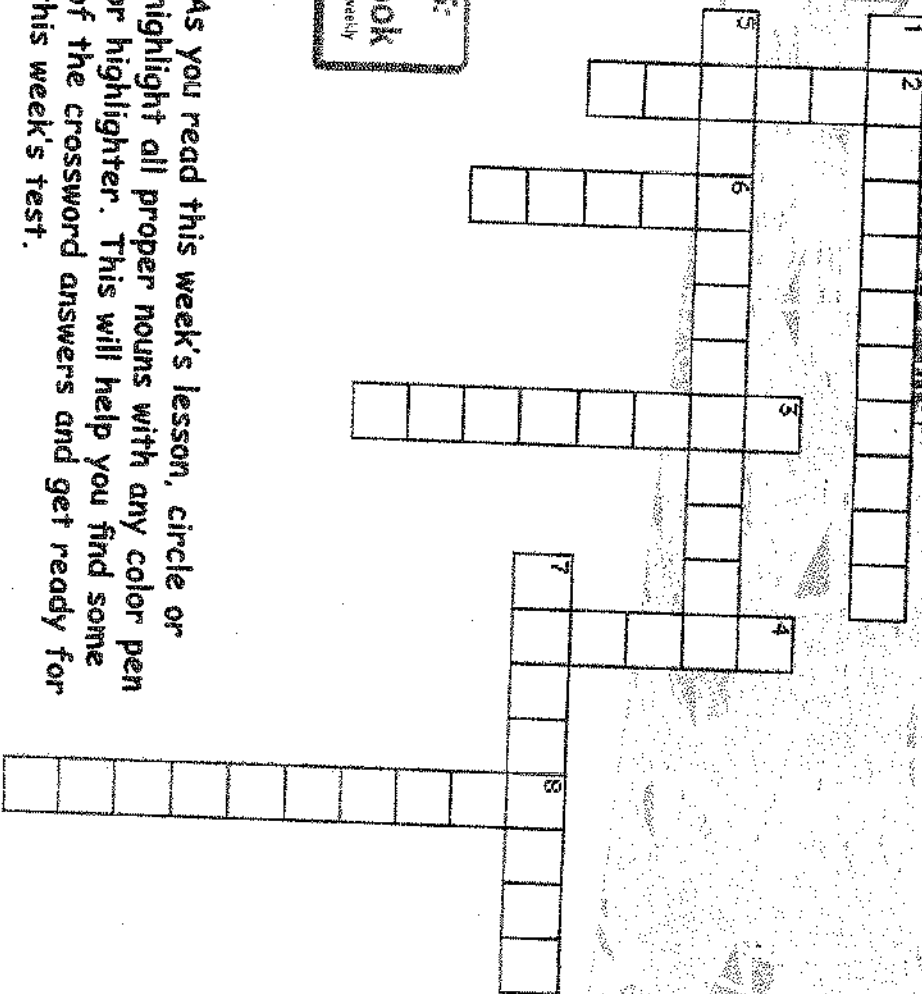


# Vocabulary & Word Review

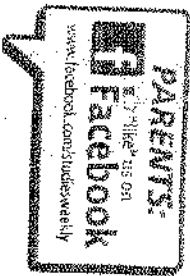


## Across

1. another scientific name for genes
5. the man considered to be the father of the science of genetics
7. a history of ancestors

## Down

2. the offspring of two different species; it cannot have offspring
3. the order of parents passing down their traits to their offspring
4. an exact genetic copy of another living organism
6. the packet of instructions passed from one generation to another in all creatures that determines their identities
8. the word used for one set of offspring (children, parents, grandparents, etc.)



As you read this week's lesson, circle or highlight all proper nouns with any color pen or highlighter. This will help you find some of the crossword answers and get ready for this week's test.

# Mini-Lab My Prediction is . . .

Name \_\_\_\_\_  
 Date \_\_\_\_\_  
 # \_\_\_\_\_

Inherited traits can be predicted by using a Punnett square. A Punnett square is a table that shows the probability that certain traits will pass to an offspring. Look at the table below to see how probability was determined. Then, answer the questions below. On the empty square, do your own probability table. Choose any two combinations of a trait and fill out the Punnett square. Use a capital letter to indicate the dominant trait and a lower-case letter to represent the recessive trait. (You could use eye color, hair color, height, or just about anything!)

## Hybrid Bean Plants

R                      r

R	<b>RR</b> Red	<b>Rr</b> Red
r	<b>Rr</b> Red	<b>rr</b> White

## Your Punnett Square

<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

### Answer These Questions

1. What is the probability of a white-bean plant?
2. What is the probability of bean plants with the same red color?
3. What is the probability of a pure red-bean plant?
4. What is the probability of hybrid red-bean plants?
5. Could someone tell if the red-bean plant had a recessive trait for white? Why or why not?