## Vocabulary Practice

<table>
<thead>
<tr>
<th>carrier</th>
<th>incomplete dominance</th>
<th>linkage map</th>
</tr>
</thead>
<tbody>
<tr>
<td>sex-linked gene</td>
<td>codominance</td>
<td>pedigree</td>
</tr>
<tr>
<td>X chromosome inactivation</td>
<td>polygenic trait</td>
<td>karyotype</td>
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### A. Compound Word Puzzle

Read the phrase and write the word that it most closely describes. Then write another phrase that describes the same word in a different way.

<table>
<thead>
<tr>
<th>PHRASE 1</th>
<th>WORD</th>
<th>PHRASE 2</th>
</tr>
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<tbody>
<tr>
<td>picture of all human chromosomes</td>
<td><strong>Example</strong> karyotype</td>
<td>can show large changes in chromosomes</td>
</tr>
<tr>
<td>genes located on the sex chromosomes</td>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>it shows the relative locations of genes on a chromosome</td>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>one X chromosome is randomly turned off</td>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>a chart that is used to trace phenotypes and genotypes in a family</td>
<td>4.</td>
<td></td>
</tr>
<tr>
<td>many genes interact to produce a single trait</td>
<td>5.</td>
<td></td>
</tr>
<tr>
<td>an “in-between” phenotype</td>
<td>6.</td>
<td></td>
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**B. Words in Context**  Answer the questions to show your understanding of the vocabulary words.

1. Which is like a **karyotype**, a satellite weather map, or the temperature on one street corner?

2. Is **incomplete dominance** like a glass of cranberry-raspberry juice or a pizza with everything?

3. Is **X chromosome inactivation** like an electrical generator or a power failure?

4. Would a **pedigree** be used to trace genes in a family or to send a dog to obedience school?

5. Is **codominance** like doing your homework or two people talking at the same time?

6. Which is like a **carrier**, a ferry crossing a lake, or a door opening?

7. Are exact directions or a general idea of where you are going more like a **linkage map**?

8. Is a **polygenic trait** more like a basketball team or a figure skater?

**C. Do-It Yourself Matching**  In a random order, write short definitions for each term on the blank lines to the right. Then give your paper to a classmate who should write the number of the term next to the correct definition.

1. **sex-linked gene**

2. **incomplete dominance**

3. **carrier**

4. **linkage map**

5. **codominance**

6. **karyotype**
D. Who Am I? Choose among these terms to answer the riddles below:

<table>
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1. I am the process that randomly turns off one X chromosome in a human female’s cells.

2. I am an interaction between two alleles in which both alleles are fully and separately expressed.

3. I am a chart that can be used to trace genes through a family.

4. I am a picture that shows the overall structure of chromosomes.

5. I am an interaction between two alleles that produces a phenotype that is between the phenotypes of homozygotes.

6. I am a person who does not show a genetic disorder, but I can pass it on to my offspring.

7. I am a map of genes on a chromosome, but I do not show the exact locations of the genes.

8. I am a trait that is the result of many genes.

E. Find the Odd Word  Put a checkmark next to the word that does not belong.

1. ___ karyotype  Explanation_____________________________________
   ___ linkage map  _________________________________________________
   ___ X chromosome inactivation  ________________________________

2. ___ sex-linked gene  Explanation________________________________
   ___ polygenic trait  _____________________________________________
   ___ carrier  ___________________________________________________
VOCABULARY PRACTICE, CONTINUED

3. ___ linkage map  
   ___ incomplete dominance  
   ___ codominance  
   Explanation__________________________

4. ___ incomplete dominance  
   ___ karyotype  
   ___ pedigree  
   Explanation__________________________

F. Analogies  Read each analogy. Decide which term is most like it.

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1. Airport baggage handler ________________________________
2. Blending the ingredients of a fruit smoothie ________________________________
3. Randomly flipping switches in an electrical panel ________________________________
4. A still-life painting ________________________________
5. All of the people who make up the United States ________________________________
6. Mixing the ingredients of a fruit salad ________________________________
7. A train schedule that shows the stops made by the train ________________________________

Write your own analogies to show the meaning of these terms:

8. sex-linked gene ________________________________
   ________________________________
   ________________________________

9. pedigree ________________________________
   ________________________________
   ________________________________