Inherited Plant Traits

Information About Me

Gender (Circle One): Male  Female  Grade: ________
Are you part of a Military Family? (Circle One): Yes  No
Race & Ethnicity (Circle any that apply):
  White  African-American or Black  Asian
  American Indian  Pacific Islander  Hispanic ethnicity

Want to learn more?

Because of this lesson......
Put an “x” in the box that describes how you feel.

1. I would like to learn more about Inherited Traits.  X
2. I would like to learn more about other science-related subjects.  X

Vocabulary

DRAW A LINE from each word to the correct definition.

Pollination: A characteristic passed from parent to offspring.
A.

Heredity: A child—in plants these are called seeds.
B. Trait:
C. Transfer of pollen from one plant to another.

Offspring: The study of how parents pass on traits to their offspring. This is also called genetics.
D.

Inherited Traits—The Basics

Answer the questions below by putting an “x” in the box.

1. Plants have parents.  X
2. Offspring can resemble parents.  X
3. Learning how to read is an observable trait.  X
4. Genes determine which characteristics offspring inherit from their parents.  X

UGA extension
Cantwell & Hobbs, 2016
Inherited Plant Traits

**Dominant or Recessive Gene?**

**CIRCLE the correct GENE for each statement below**

<table>
<thead>
<tr>
<th>Statement</th>
<th>DOMINANT or RECESSIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>This gene is stronger than the other</td>
<td><strong>DOMINANT</strong> or RECESSIVE</td>
</tr>
<tr>
<td>This gene is weaker than the other</td>
<td><strong>DOMINANT</strong> or RECESSIVE</td>
</tr>
<tr>
<td>If a dominant gene and a recessive gene were in a competition, this gene would win.</td>
<td><strong>DOMINANT</strong> or RECESSIVE</td>
</tr>
<tr>
<td>This gene usually determines what observable traits are expressed in offspring.</td>
<td><strong>DOMINANT</strong> or RECESSIVE</td>
</tr>
</tbody>
</table>

**Observable Traits—What do you see?**

- **RED** (Dominant)
- **WHITE** (Recessive)

**PARENT 1**

- **RED**

**PARENT 2**

- **WHITE**

**Based on Observable Traits, what color petals will the offspring of Parent 1 and Parent 2 most likely express?**

**CIRCLE the correct answer below.**

<table>
<thead>
<tr>
<th>Answer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Pink</td>
<td></td>
</tr>
<tr>
<td>B. White</td>
<td></td>
</tr>
<tr>
<td>C. Red</td>
<td></td>
</tr>
<tr>
<td>D. Purple</td>
<td></td>
</tr>
</tbody>
</table>

What is the most important thing you learned?

**Thank You!**