

## Genetics

Name:

### Mendel's First Experiments

Period:

Use Chapter 6, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

characteristics    dominant    first-generation    purple    recessive    true-breeding

#### Mendel's First Experiments (p.177)

1. For his experiments, Mendel studied different \_\_\_\_\_ in pea plants.
2. The plants Mendel used were \_\_\_\_\_ plants, which meant that their offspring would have the same trait as the parent plant.
3. The offspring of a cross that is tried for the first time are called \_\_\_\_\_ offspring.
4. The results of Mendel's first cross of plants with white flowers and plants with purple flowers were that all of the first-generation plants had \_\_\_\_\_ flowers.
5. A trait seen in the first generation, when parents with different traits are bred, is a \_\_\_\_\_ trait.
6. A trait that fades away in the first generation is a \_\_\_\_\_ trait.



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Imagine that a couple gets married and has children. One of the parents has a round head, and the other one has a pointy head. If all of their children have pointy heads, does this mean that a pointy head is a dominant or a recessive trait?

Having a pointy head must be a

\_\_\_\_\_ trait,

because...