Name _____ Date _____ Class _____

Directed Reading Worksheet 5-1

Who Was Gregor Mendel? (p. 106)

6. In the garden of a monastery, Gregor Mendel studied how traits are passed from _____ to _____.

Unraveling the Mystery (p. 107)

7. Mendel noticed that
   - **a.** all of the parents' traits can be seen in their offspring.
   - **b.** only plants have traits that don't appear in some generations.
   - **c.** sometimes a trait will not appear in a generation.
   - **d.** all traits appear in every generation.

8. What is a "self-pollinating" plant?

_____

_____

_____

_____

Peas Be My Podner (p. 108)

Mark each of the following statements *True* or *False*.

9. _____ Mendel chose to study several traits at one time to get as much information as possible.

10. _____ In Figure 4, wrinkled and round are the two traits shown for the characteristic of seed shape.

11. _____ If it self-pollinates, a tall true-breeding plant can produce short offspring.

12. _____ In cross-pollination, a plant's anthers are removed and it is fertilized with pollen from another plant.

Mendel's First Experiment (p. 109)

13. Look at Figure 6. What happened when Mendel crossed plants that had round seeds with plants that had wrinkled seeds?

_____

_____

14. For each characteristic, Mendel called the trait that always appeared _____ and the trait that seemed to disappear _____.