

BIOLOGY STUDY GUIDELINES FOR 11.1
The Work of Gregor Mendel



KEY QUESTIONS that will be answered in this section:

Where does an organism get its unique characteristics?
How are different forms of a gene distributed to offspring?

1. Define genetics.
2. Explain who Gregor Mendel is.
3. Mendel used "true breeding" plants in his initial experiments. What did this mean?
4. Summarize Mendel's experiments and their outcomes explained on page 309 and in figure 11-3 on page 310.

TERMS:

5. What is the term used to describe a cross between parents that have different traits.
6. Explain what the "P" and "F" generations are.
7. Determine the difference between genes and alleles.
8. Explain what is meant by the principle of dominance. Give examples of dominance and recessive traits in Mendel's pea plants.
9. Explain what segregation is.
10. Describe the evidence Mendel used to explain that segregation exists.