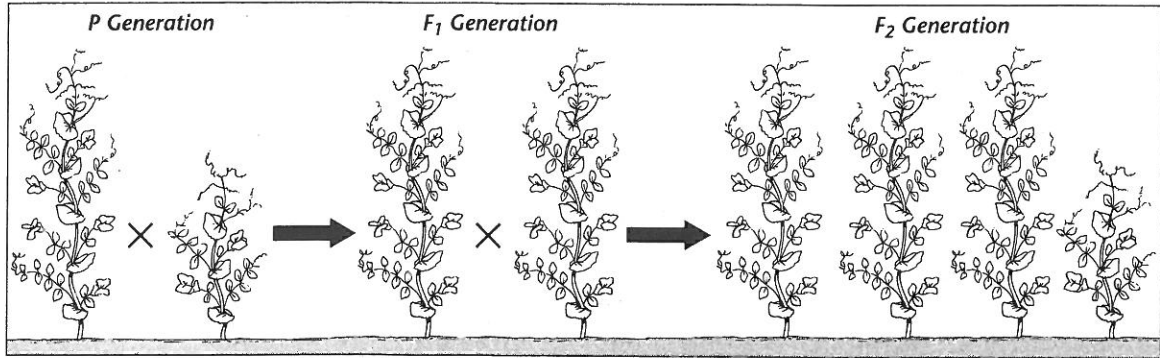


Genetics: The Science of Heredity ▪ *Review and Reinforce*

Mendel's Work

Understanding Main Ideas

Study the diagram. Then answer the following questions on a separate sheet of paper.



1. What trait in pea plants is being studied in the cross above?
2. What are the two alleles of this trait?
3. Which allele is the dominant allele? Explain how you know.
4. Which allele is the recessive allele? Explain.
5. What alleles do the F₁ offspring have? Explain which allele was inherited from which parent.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

- | | |
|---------------------------|---|
| _____ 6. genetics | a. the passing of traits from parents to offspring |
| _____ 7. alleles | b. an organism with two different alleles for a trait |
| _____ 8. traits | c. factors that control traits |
| _____ 9. recessive allele | d. physical characteristics of organisms |
| _____ 10. genes | e. an allele whose trait always shows up in the organism |
| _____ 11. hybrid | f. the different forms of a gene |
| _____ 12. heredity | g. the scientific study of heredity |
| _____ 13. dominant allele | h. an allele whose trait is masked in the presence of a dominant allele |