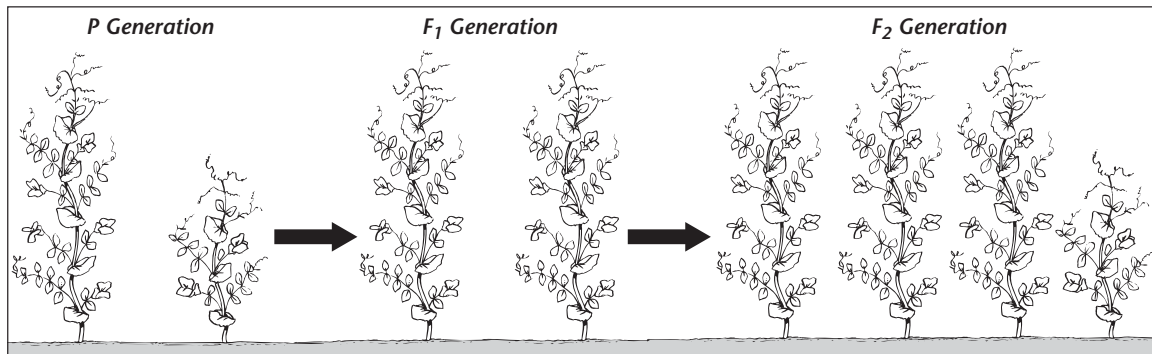


Genetics: The Science of Heredity ▪ 5.1 Review and Reinforce**Mendel's Work****Understanding Main Ideas**

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? What are the two alleles of this trait?
2. Which allele is the dominant allele? Explain how you know.
3. 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.

- | | |
|---------------------------|---|
| _____ 4. genetics | a. the passing of traits from parents to offspring |
| _____ 5. alleles | b. an organism with two different alleles for a trait |
| _____ 6. traits | c. factors that control traits |
| _____ 7. fertilization | d. physical characteristics of organisms |
| _____ 8. recessive allele | e. an allele whose trait always shows up in the organism |
| _____ 9. genes | f. the different forms of a gene |
| _____ 10. hybrid | g. the scientific study of heredity |
| _____ 11. heredity | h. an allele whose trait is masked in the presence of a dominant allele |
| _____ 12. dominant allele | i. the offspring of many generations that have the same trait |
| _____ 13. purebred | j. the joining of egg and sperm |