

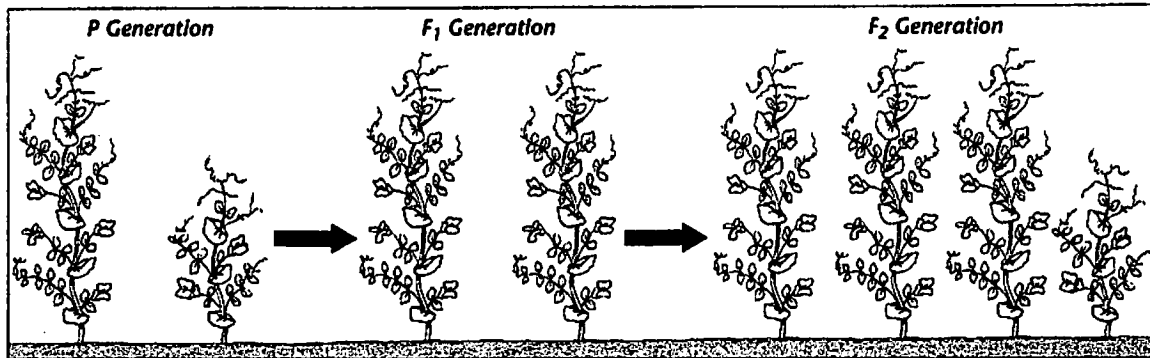
Genetics: The Science of Heredity • 5.1 Review and Reinforce

# Mendel's Work

## Understanding Main Ideas

Study the diagram. Then answer the following questions

Key  
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1. What trait in pea plants is being studied in the cross above? What are the two alleles of this trait? **height**

2. Which allele is the dominant allele? Explain how you know. **Dominant is tall**

3. What alleles do the F<sub>1</sub> offspring have? Explain which allele was inherited from which parent. **(F<sub>1</sub> = Tt)** T from tall parent, t from short parent

Trait always shows up when the allele is present

### Building Vocabulary

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

- g 4. genetics
- f 5. alleles
- d 6. traits
- j 7. fertilization
- h 8. recessive allele
- c 9. genes
- b 10. hybrid
- a 11. heredity
- e 12. dominant allele
- i 13. purebred

- a. the passing of traits from parents to offspring
- b. an organism with two different alleles for a trait
- c. factors that control traits
- d. physical characteristics of organisms
- e. an allele whose trait always shows up in the organism
- f. the different forms of a gene
- g. the scientific study of heredity
- h. an allele whose trait is masked in the presence of a dominant allele
- i. the offspring of many generations that have the same trait
- j. the joining of egg and sperm