

Chapter Four Science: Inheriting Traits Objectives

Lesson Five

- 1) What are inherited characteristics?
- 2) Describe and explain the concept of traits and heredity through examples.
- 3) Describe and summarize Mendel's laws of heredity.
- 4) Describe and explain the idea of hybrids and dominant and recessive factors.
- 5) Describe and explain the use of Punnett squares and their use in genetics.
- 6) Describe the differences between genotype and phenotype.
- 7) Describe the differences in pedigree and carrier.

Lesson Six

- 1) Describe how genetic material determines traits.

2) Describe and explain concepts of chromosomes, meiosis, and mitosis.

3) Describe and explain genes and DNA.

4) Describe how the environment can influence traits.

Lesson Seven

1) Describe traits that you have inherited.

2) Describe dominant and recessive traits.

3) What is a sex-linked trait?

4) Describe examples of inherited disorders. Give an example.

5) Describe genetic engineering and genetic counseling.

Lesson Eight

1) What is selective breeding?

- 2) Give an example of selective breeding.

- 3) Give an example of genetic engineering and gene-splicing.

- 4) What are the risks and benefits of genetically engineered crops?

- 5) Describe the contributions of Carver and Burbank.