

Name \_\_\_\_\_

## The Building Blocks of Life: Understanding Genetic Diversity

### Short Answer

1. Why is genetic diversity important for the adaptation of species to changing environments?
2. How does genetic diversity provide resilience against diseases and other threats?
3. What is the risk associated with inbreeding in populations, and how does it impact genetic diversity?
4. Give examples of practical applications of genetic diversity in agriculture and medicine.
5. How does genetic diversity contribute to the long-term viability of populations and the persistence of species?

