

Name: _____

Understanding the Power of Genes

Video Questions

Answer the following questions in the space provided. The questions are listed in the order they are presented on the video.

1. Quote: “The living world has infinite variety because every time DNA copies itself, it mutates, or changes slightly.” What familiar scientific term is used to describe the result of the accumulation of these changes?
2. Describe what is meant by the following statement: “DNA is a silent witness.”
3. The world’s first clone created from an adult cell was what kind of animal? What was this animal’s name?
4. Name one other animal that has been successfully cloned.
5. Name two types of cells that provide DNA that can be used to make a clone.
6. What term is used to describe genetically altered animals?
7. Describe one possible use for genetically altered animals with human genes in them.
8. Some scientists think it is the responsibility of humans to ensure the future survival of endangered species by cloning them. What do you think?
9. Many people are afraid of the idea of human cloning because they think that the clone will be exactly like the original person. What body of evidence suggests that these people have overreacted?
10. Consider the following statement: “All that genes do is code for proteins, and all that proteins do is to control chemical reactions inside the brain.” If this is accurate, how do scientists account for behavioral tendencies that appear to be passed on from parents to children?