

Heredity Honor

1. What is meant by the term “heredity”?
2. Draw a picture of an animal cell and label the cell organelles on a separate piece of paper.
3. What is a chromosome and where are they located?
4. What is a gene and where is it found?
5. What is meant by the term “allele”?
6. How does a dominant allele differ from a recessive allele?
7. Determine which allele you have of the following genetic traits: Widows Peak, Free Earlobe, Dimples, and Rolling Tongue
8. Punnet Square Activity
9. What does the process of mitosis accomplish?
10. Draw a sequence of cells that shows the process of mitosis on a separate piece of paper.
11. What does the process of meiosis accomplish and how does it differ from mitosis?

12. Draw a sequence of cells that shows the process of meiosis on a separate piece of paper.
13. Describe how DNA encodes the specific proteins that result in genetic traits.
14. What is a mutation?
15. Know at least five genetic disorders and tell a story about a famous person or someone that you know has had one of these disorders.
16. Is Biological Heredity the only factor contributing to your character, i.e., what makes you who you are?
17. Find 3 statements from Ellen White's writings that relate to the previous question.