

Name \_\_\_\_\_

## The Amazing World of Mendelian Genetics

### Open-Ended Response Answer Key

1. Answers may vary. Example: "My family has a trait of having attached earlobes, which might follow Mendelian Genetics because both my parents have attached earlobes."
2. Answers may vary. Example: "Scientists might use Mendelian Genetics to cross-breed plants with high yield and disease resistance to create stronger and more productive crops."
3. Answers may vary. Example: "Mendelian Genetics could help me understand why my dog has a certain coat color or why it behaves in a certain way, based on the genes it inherited from its parents."
4. Answers may vary. Example: "It's important for scientists to study how traits are inherited across generations to understand the diversity of life and how genetic disorders or diseases are passed down, which can lead to better treatments and advancements in various fields."

