

Name _____

Unraveling Mysteries: The World of Geneticists

Open-Ended Response Answer Key

1. Answers will vary, but steps may include literature review, DNA sequencing, gene identification, and potential applications in gene therapy or diagnostics.
2. Genetic counseling provides emotional support, risk assessment, and informed decision-making for individuals facing genetic conditions, such as deciding on prenatal testing or family planning.
3. Genetics has applications in agriculture, like breeding crops for desirable traits, and conservation by studying genetic diversity in endangered species.
4. Ethical dilemmas in gene editing include concerns about unintended consequences and the potential for altering the human germline, but it also offers the possibility of curing genetic diseases.

