

Name \_\_\_\_\_

## Unveiling the Secrets of How Artificial Intelligence and Machine Learning Algorithms Learn

### Open-Ended Response Answer Key

1. Answer: Machine learning algorithms can be used in healthcare to predict disease outbreaks based on patterns in medical data, helping health organizations allocate resources effectively.
2. Answer: Challenges may include the need for large amounts of quality data, potential bias in training data, and the need for constant monitoring and updates. Limitations may include the inability to explain decisions made by complex models.
3. Answer: Important features might include leaf shape, size, color, vein patterns, and texture. These characteristics can help the algorithm distinguish between different types of plants.
4. Answer: Possible examples include personalized recommendations on streaming platforms, virtual assistants like Siri or Alexa, and email spam filters that reduce unwanted messages. These technologies make daily tasks more convenient and efficient.

