

Name \_\_\_\_\_

## Antibiotics: Mighty Medicines Fighting Bacterial Infections

### Open-Ended Response Answer Key

1. It's important to use antibiotics responsibly to prevent the development of antibiotic resistance, preserve their effectiveness for future generations, and minimize the risk of adverse effects.
2. If bacteria develop antibiotic resistance, it can make bacterial infections more difficult to treat and pose a serious threat to public health.
3. Antibiotics are used in agriculture to promote animal growth and prevent disease. However, their widespread use has raised concerns about the development of antibiotic-resistant bacteria and their impact on human health.
4. Antibiotics are not effective against viral infections because they specifically target bacterial cells and cannot destroy viruses. Using antibiotics to treat viral infections is not only ineffective but can also contribute to the development of antibiotic resistance.

