

Name \_\_\_\_\_

## The Antibiotic Conundrum: Untangling the Mystery of Virus Treatment

### Short Answer Key

1. Antibiotics are designed to target bacteria, which are structurally different from viruses. Viruses need living cells to survive, so antibiotics are ineffective against them.
2. Misusing antibiotics can lead to antibiotic resistance, where bacteria become resistant to the drugs, making future bacterial infections harder to treat.
3. Viral infections can be treated by resting, staying hydrated, and sometimes using antiviral medications prescribed by a doctor.
4. Antiviral medications target specific aspects of the virus's life cycle, helping to reduce the severity and duration of symptoms.
5. Antibiotic resistance occurs when bacteria evolve to become resistant to the drugs designed to kill them, making infections more difficult to treat.

