

Name \_\_\_\_\_

## Exploring the World of Medical Microbiology

### Short Answer Key

1. Medical microbiologists diagnose infectious diseases by identifying the microorganism responsible for the infection through laboratory testing.
2. Medical microbiologists contribute to vaccine development by studying the biology and behavior of pathogens, which helps in designing effective vaccines.
3. Antibiotic susceptibility testing is a laboratory technique used to determine which antibiotics are effective against a specific pathogen. It is important for guiding antibiotic treatment decisions and preventing the misuse of antibiotics.
4. Medical microbiologists contribute to epidemiological surveillance by monitoring the spread of infectious diseases within communities and populations, identifying disease outbreaks, and implementing control measures.
5. Medical microbiology is considered a multidisciplinary field because it integrates knowledge from microbiology, immunology, epidemiology, genetics, and clinical medicine to study infectious diseases.

