

**Key Words and Phrases for Concept Map on
How Antibiotics and Chemical Agents Affect Bacterial Structures and Functions, Part 1**

Antibiotic inhibits peptidoglycan synthesis.

Drug inhibit synthesis of acid-fast cell walls.

Antibiotic or disinfectant alters cytoplasmic membrane.

Antibiotic/chemical agent inhibits normal nucleic acid replication.

bind to transpeptidases

bind to peptides of peptidoglycan monomers

binds to bactoprenol

osmotic lysis

blocks incorporation of mycolic acid into cell wall

blocks incorporation of arabinogalactan into cell wall

inhibits bacterial topoisomerase enzymes

prevents synthesis of tetrahydrofolic acid

puts nicks in the DNA strands of certain bacteria

causes leakage of cellular needs