

**Key – Scenario: Testing Antibiotics!**

Question: Are antibiotics effective at killing bacteria?

Hypothesis: If antibiotics are added to the bacteria, then the bacteria will be killed, because antibiotics destroy the cell membrane of bacteria.

Experimental Group: test tube with antibiotics

Control Group: Test tube without antibiotics

IV – amount of antibiotics added

DV – amount of bacteria present

Constants – same amount of bacteria, same temp., same incubation time, both test tubes were sterilized.