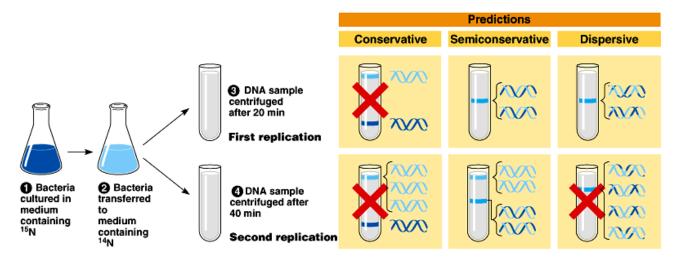
26. Use this figure to summarize the experiment in which Meselson and Stahl confirmed the semiconservative mechanism of DNA replication.



Purpose: To determine if DNA replication is conservative, semiconservative or dispersive.

Hypothesis: IF DNA replication is semiconservative (one strand is conserved and acts as template to build the other strand),

THEN E.coli bacteria grown first in "heavy" nitrogen – ¹⁵N and then grown in "light" nitrogen – ¹⁴N will consist of one band of intermediate density (¹⁵N/¹⁴N) and one band of light density (¹⁴N/¹⁴N) after centrifugation.

Independent Variable: Bacteria Dependent Variable: DNA Band location

Conclusion: DNA replication is semiconservative