

Carefully read the description of the experiment below. Be prepared to answer the questions that follow the design description as a class quiz.

Transmission electron microscopy was used to measure cell volume (cubic micrometers) and densitometric image analysis used to measure dry weight (femtograms) of single bacterial cells. The bacteria measured were *Escherichia coli* at various stages of growth. The bacteria samples were from natural assemblages in two lakes. What type of analysis would be used to determine the relationship between weight and volume?

