data: Information recorded from observation; may be in numerical or nonnumerical form.

deductive logic: Reasoning in which the conclusion necessarily follows if the evidence is true.

empirical pattern: A relationship among phenomena usually inferred from data.

Hawthorne effect: A change in behavior, such as an improvement in performance, that occurs when research participants know they are being studied.

hypothesis: An expected but unconfirmed relationship among two or more phenomena.

inductive logic: Reasoning in which the conclusion is implied by, but goes beyond, the evidence at hand and, hence, may or may not be true.

serendipity pattern: Unanticipated findings that cannot be interpreted meaningfully in terms of prevailing theories and, therefore, give rise to new theories.

theory: An interconnected set of propositions that shows how or why something occurs.