

Chapter 1

Outline

Chemistry- the science that deals with the materials of the universe and the changes that these materials undergo

Macroscopic- the overall view

Microscopic- the view from a microscope

Theory (model)- an overall explanation, which summarizes the hypotheses that agree with the experimental results

Scientific Method

Step 1: State the problem and collect data (make observations). Qualitative observations do not involve numbers while quantitative measurements involve numbers.

Step 2: Formulate hypotheses- a possible explanation for the observation

Step 3. Perform Experiments that test the hypotheses and prove them correct or incorrect.

Natural law- a law that is a summary of generally observed behavior

Ways to learn Chemistry: chemistry in action, chemistry in the laboratory, focus questions, team worksheets