

## Goals and Assessment

Clarify that the goals indicate what the students should be able to do as a result of the activity. Make sure that students understand that the **Chapter Challenge** is based on these goals.

Goal	Location in Activity	Assessment Opportunity
Observe the behavior of a cathode ray in the presence of a magnet.	<b>Investigate</b> Step 1	Students' observations are consistent with those given in Teacher's Edition.
Discuss Thomson's conclusions from 1897 about cathode rays.	<b>Investigate</b> Step 2	Students are able to describe the relationship between cathode rays, electrons, and the structure of atoms.
Simulate an experiment from 1911 by Rutherford in which he learned more about the structure of atoms.	<b>Investigate</b> Steps 3-6 <b>Chemistry to Go</b> Question 6	Students are able to visualize the relative size of the nucleus of an atom and describe the relevance to Rutherford's experiments.
Organize your understanding of some of the different particles that comprise matter.	<b>Chemistry to Go</b> Questions 1-5	Students' answers are similar to those given in Teacher's Edition.