

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
Apply ancient definitions of elements to materials you believe are elements.	Investigate Steps 1-2	Students are able to articulate why some materials satisfy a definition for an element.
Test some properties of several common chemical elements.	Investigate Steps 3-6	Students' observations match those given in Teacher's Edition.
Classify elements as metals, nonmetals or neither.	Investigate Step 7	Students' classifications of the elements tested match those given in Teacher's Edition.
Learn to differentiate between chemical and physical properties of materials.	ChemTalk Chemistry to Go Questions 1-3	Students give examples of more properties that are chemical (Question 1) and physical (Question 2).
Organize a table of the elements you tested based on their properties.	Investigate Step 8 Chemistry to Go Questions 4-5	Students' organization schemes are similar to the one given in the Teacher's Edition. Students can explain trends in their organizations of the elements tested.
Practice safe handling of corrosive chemicals in the laboratory.	Investigate Steps 3-6	Students practice safety in the laboratory.