

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
Investigate the composition of the atom's nucleus.	Investigate Part A, Steps 1-2	Students' answers match those given in Teacher's Edition.
Explain why the atomic masses of some elements are not whole numbers.	Investigate Part A, Step 3a	Students' explanations contain all significant arguments given in Teacher's Edition.
Use symbols to represent different isotopes of an element.	Investigate Part A, Step 4b	Students' answers match those given in Teacher's Edition.
Determine the composition of the nucleus of an atom from its isotope symbol.	Investigate Part A, Step 3b Chemistry to Go Question 4	Students' answers match those given in Teacher's Edition.
Calculate the atomic mass of an element from the percent abundances of its isotopes.	Inquiring Further	Students are able to calculate average atomic mass and explain the process.