Goals and Assessment

Clarify that the goals indicate what students should understand and be able to do as a result of the activity. Make sure students understand that Chapter Assessments are based upon these goals.

Goal	Location in Activity	Assessment Opportunity
Measure the amount of dissolved gas in a carbonated beverage.	**Investigate** Questions 1 – 4	Experimental design and results provide an opportunity to evaluate inquiry skills and understanding of inquiry.
Understand that volcanoes emit gases such as water vapor, carbon dioxide, and sulfur dioxide.	**Digging Deeper Check Your Understanding** Questions 1 – 2	Correct responses require understanding that volcanoes are a source of gases within the atmosphere.
Describe how volcanoes are part of the hydrosphere and water cycle.	**Digging Deeper Check Your Understanding** Question 3	Response provides evidence about awareness of the movement of water through volcanoes.
Demonstrate awareness of how volcanoes can affect global temperatures.	**Digging Deeper Understanding and Applying** Question 2	Students demonstrate their awareness by considering how a large eruption might impact global temperatures.
Recognize that volcanoes are part of interactive systems on Earth.	**Digging Deeper Check Your Understanding** Questions 3 – 5 **Understanding and Applying** Questions 1 – 2 and 4 **Preparing for the Chapter Challenge**	These questions provide multiple opportunities to assess students' understanding and awareness of volcanoes within the Earth system.