

## 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
Construct a simple seismometer.	<b>Investigate</b> Step 1	Seismometer properly constructed, accurately records “waves.”
Record motion in two dimensions and also within a fixed time frame.	<b>Investigate</b> Steps 2 – 5	Observations are correct and detailed.
Understand how seismometers record earthquake waves.	<b>Investigate</b> Step 6 <b>Digging Deeper</b> <b>Check Your Understanding</b> Questions 1 – 4 <b>Understanding and Applying</b> Questions 2 – 3	Responses to questions match those given in the Teacher’s Edition.
Recognize P waves, S waves, and surface waves on seismograms.	<b>Investigate</b> Step 7(a) <b>Digging Deeper</b>	P and S wave arrivals properly identified.
Read a graph to determine the distance to the earthquake focus.	<b>Investigate</b> Step 7(b) <b>Digging Deeper</b> <b>Check Your Understanding</b> Question 4	Measurement correct. Responses to questions match those given in the Teacher’s Edition.
Locate the epicenter from time–distance graphs.	<b>Investigate</b> Step 7(c) <b>Digging Deeper</b> <b>Check Your Understanding</b> Question 4	Responses to questions match those given in the Teacher’s Edition.