

How Tall Is It?

Question

How tall are the trees in your neighborhood?

Setting the Stage

After completing the “Measure a Tree” exercise, ask the students if they can guess how tall the tallest tree on the schoolyard, the flagpole, or the tallest building in the area is. Accept all reasonable answers and then have the students use their luneometers to complete the chart on the following page.

Materials Needed for Each Individual

- luneometer (page 21)
- copy of the “How Tall Is It?” work sheet (page 22)

Procedure

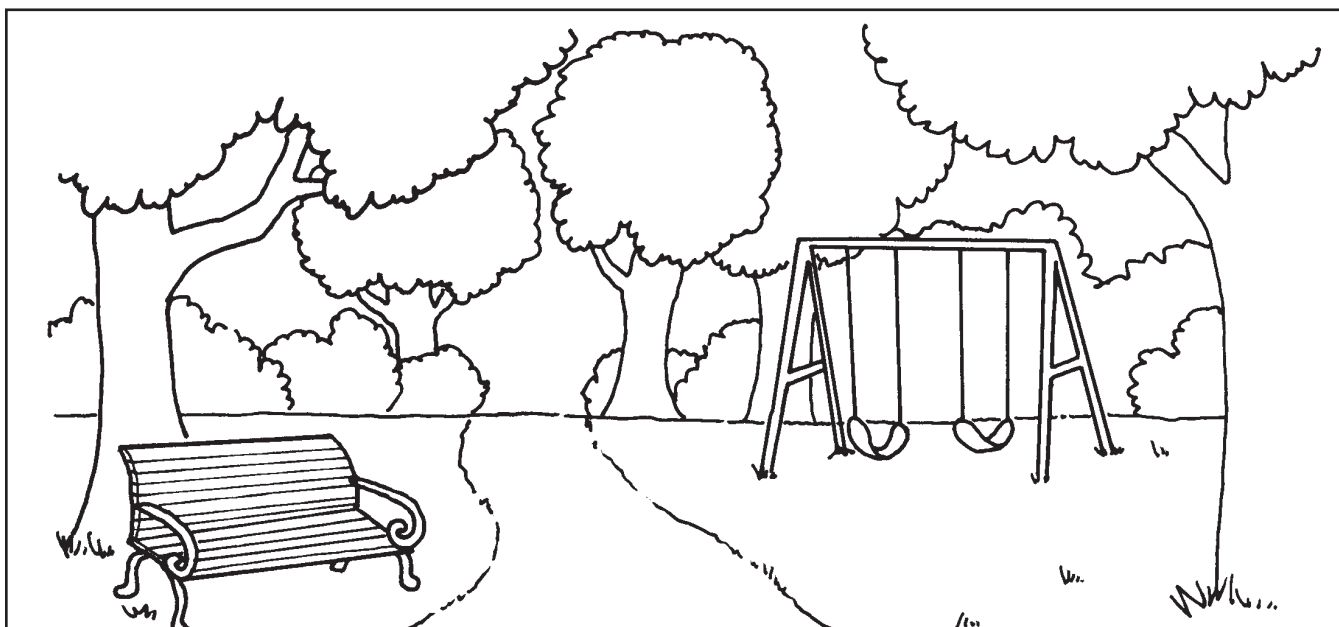
1. Working in pairs, the students sight and measure various tall objects in the schoolyard or around their homes.
2. Record the results on the work sheet.

Extension

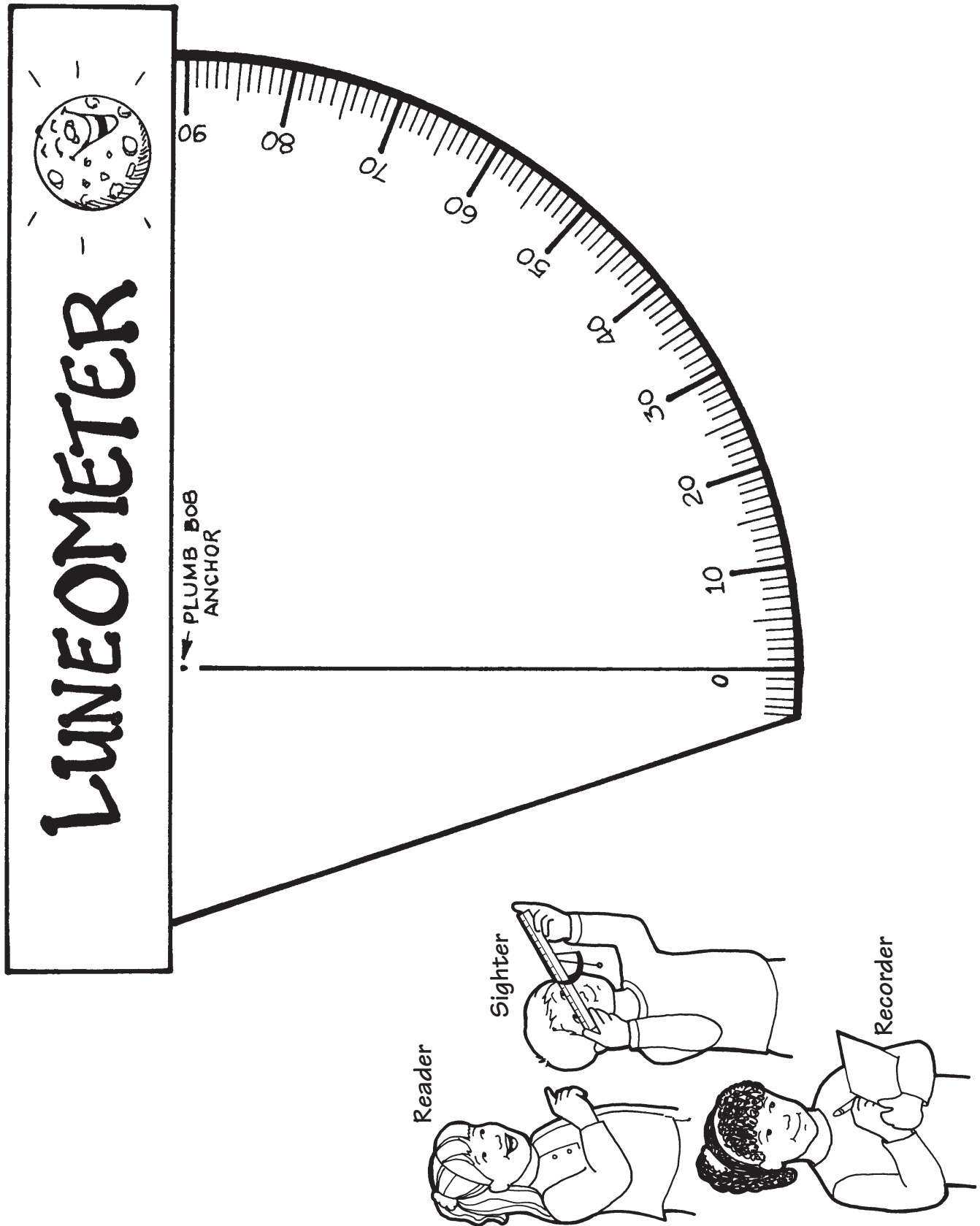
The “How Tall Is It?” work sheet can be used to reinforce geometry skills of line and angle. It may also be turned into a math lesson. Numbers in columns can be added, totals can be subtracted, and the work sheet itself uses multiplication.

Closure

This activity may be utilized as a classroom contest with the winning team finding the tallest object in the neighborhood. The object can be a tree, a building, or silo. A small prize for the winners always makes this an exciting activity.



How Tall Is It? (cont.)



How Tall Is It? *(cont.)*

Name of Object	Estimate of Object's Height	Angle	Tangent of Angle	Distance from Object	Height of Object
1.				m	m
2.				m	m
3.				m	m
4.				m	m
5.				m	m
6.				m	m
7.				m	m
8.				m	m
9.				m	m
10.				m	m
11.				m	m
12.				m	m
13.				m	m