

Lesson 4
Along the Nature Trail

LEARNING OBJECTIVES:

1. The students will record compass bearings and distances as they travel from station to station.
2. The student will collect a word at each station to be used to create a sentence.
3. The students will create a scale map using data collected from stations on the nature trail.

NYS Standards 1,2,4,6

SKILLS and CONCEPTS:

- Reading a compass, measuring, problem solving, collecting data.
- Creating a scale map.

Procedure:

1. At the starting point (station), students will take and record bearing and distance measurements to the next point in the data table. Students will continue until all stations are located and recorded.
2. Students will copy the word from each station on the trail and use all the words to complete a word scramble.
3. Students will use information to create a scale map of their path.

Resources Required:

compass, journal, tape measures, rulers, pencils, pens, nature trail

Preparation Required:

- experiences with:
 - scale maps
 - compass reading
 - tape measure
 - protractor (if desired)

Assessment:

- Data table
- Word scramble
- scale map
- Rubric (attached)

Possible Extensions:

- Chains and links
- Transit
- Complete loop to calculate area
- Topographical Map

Assigned Station nature trail research to establish a permanent point along the trail

Activity #4

Along the Nature Trail

Starting at the "trail head" with your partner, use your compass and tape measure to work your way back to the classroom.

Record:

1. compass bearing from one station to the next.
2. distance between stations.
3. the scrambled word at each station.

Data Chart
X Starting Point

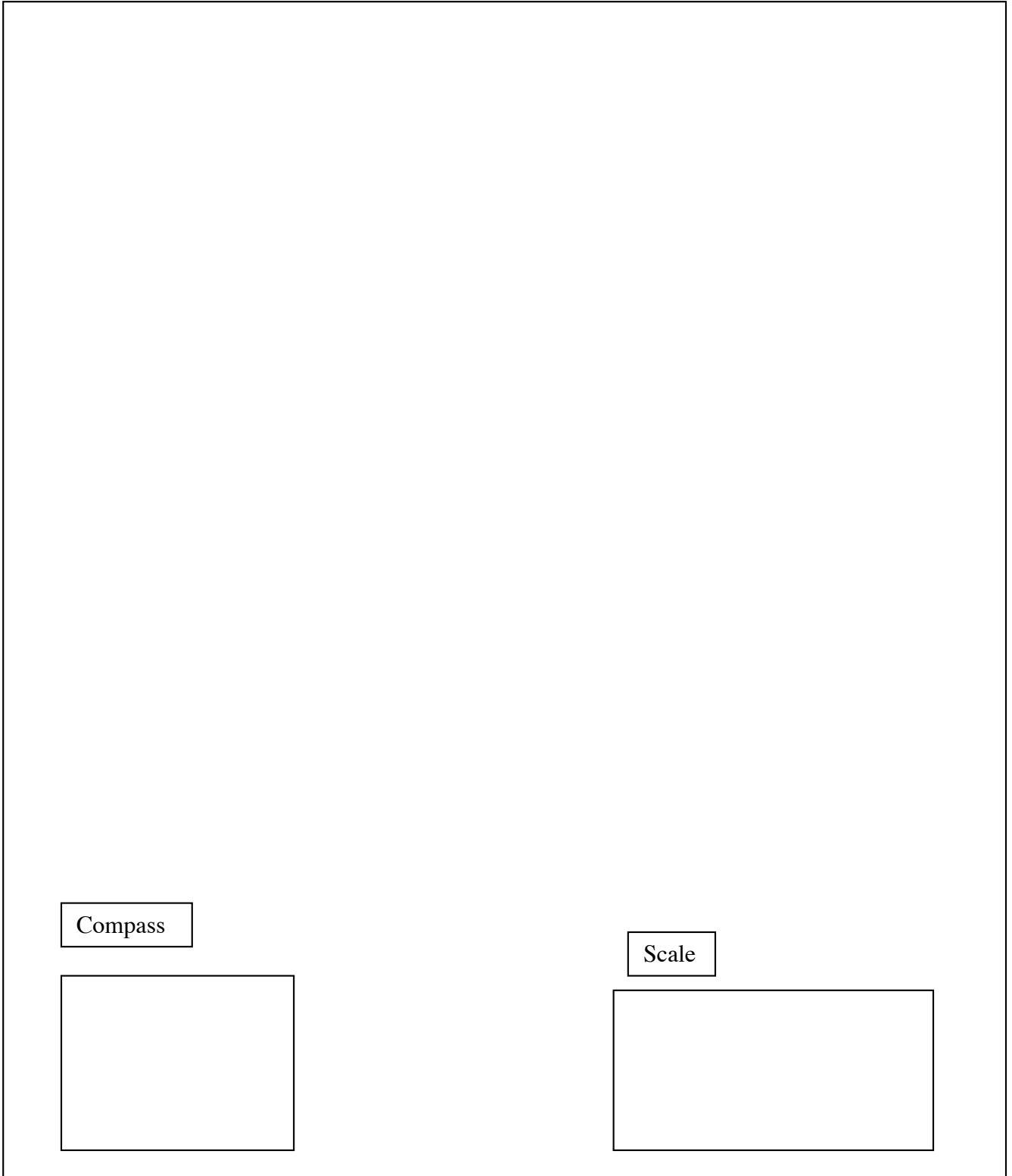
Station	<u>Bearing</u>	<u>Distance</u>	<u>Word</u>
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

Word Scramble

Use the words from your station to make a complete sentence.

Challenge

Create a scale map of your nature trail route.



Compass

Scale