

Manchester College
Education Department
Middle Childhood Lesson

Lesson Plan By: Eric Roof

Lesson: Mapping **Length:** 45 Minutes **Grade Level:** 4th Grade

Academic Standard

- 4.3.2 (Social Studies) The World in Spatial Terms: Estimate distances between two places on a map, using a scale of miles, and use cardinal and intermediate directions when referring to relative location.

Performance Objective

- After learning how to measure the distance between locations, the students will apply mapping skills to the mapping worksheet scoring at least 8 out of 10.

Assessment

- The students will turn in the worksheet in which they measured the distance between cities in the United States.

Advanced Preparation by Teacher

- Mapping Penny's World by Loreen Leedy
- Prepare Map and find distance between Rochester Indian and New York City
- Find the North, South, East, West walls in your room.
- <http://www.teachingideas.co.uk/geography/contents.htm> (This is the Pre-Test) This document is a PDF and will not be able to copy and pasted to the bottom of the lesson plan. The teacher needs to print this document out and have the students fill it out.

Procedure: Introduction/Motivation

- Welcome class today we are going to experience how far away New York City and other cities around the United States and how far away from them we are in Rochester Indiana. We will begin by listening to the book, Mapping Penny's World by Loreen Leedy. This book will help us get ready to learn about Maps and how to read maps. Lets dig in and learn about maps today.

Step by Step Plan

- Have the students gather at their reading spots. Read the story Mapping Penny's World by Loreen Leedy. **Gardner: Verbal Linguistic**
- After you have read the second page explaining what everything in a map is show the students the other maps that Penny creates. Have them tell you what the title is, where the compass rose is, where the key and symbols are and the scale. **Blooms: Knowledge**
- After the story have the students turn towards the board. Begin the lesson on how to determine the scale of an object.
- Draw a house on one end of the board. Draw a school or another building/object on the other side of the board. Ask the students the distance between the two objects. How will we determine what the distance is? Draw a scale on the board like the ones on the map. The scale for this example will be 1 inch is equal to 1 mile. Try to make the first example around 5 inches apart, or 5 miles on your scale. **Blooms: Application/Gardner: Visual Spatial**
- Do another example and change the scale for the students. Have the students tell you how they would begin this second example. Call on a student to measure the distance on

the board for the second example. Change the house and the school so they are 10 inches apart. Change the scale to 1 inch equals 2 miles. Call on a student to walk what should be done first. **Blooms: Application/Gardner: Logical Mathematical**

- After the second example send the students back to their seats and pass out the worksheet for the students to practice their skills on. They will need a ruler for this activity. Read the directions to the class on what they have to do for the worksheet.
- When the students are done with their worksheet they need to bring it to the teacher and they need to look over what the student's answers are. If the student has them all correct they can work on telling the distance from Rochester Indiana to New York City. They will turn this in for a grade. **Blooms: Application/Gardner: Logical-Mathmematical**

Closure

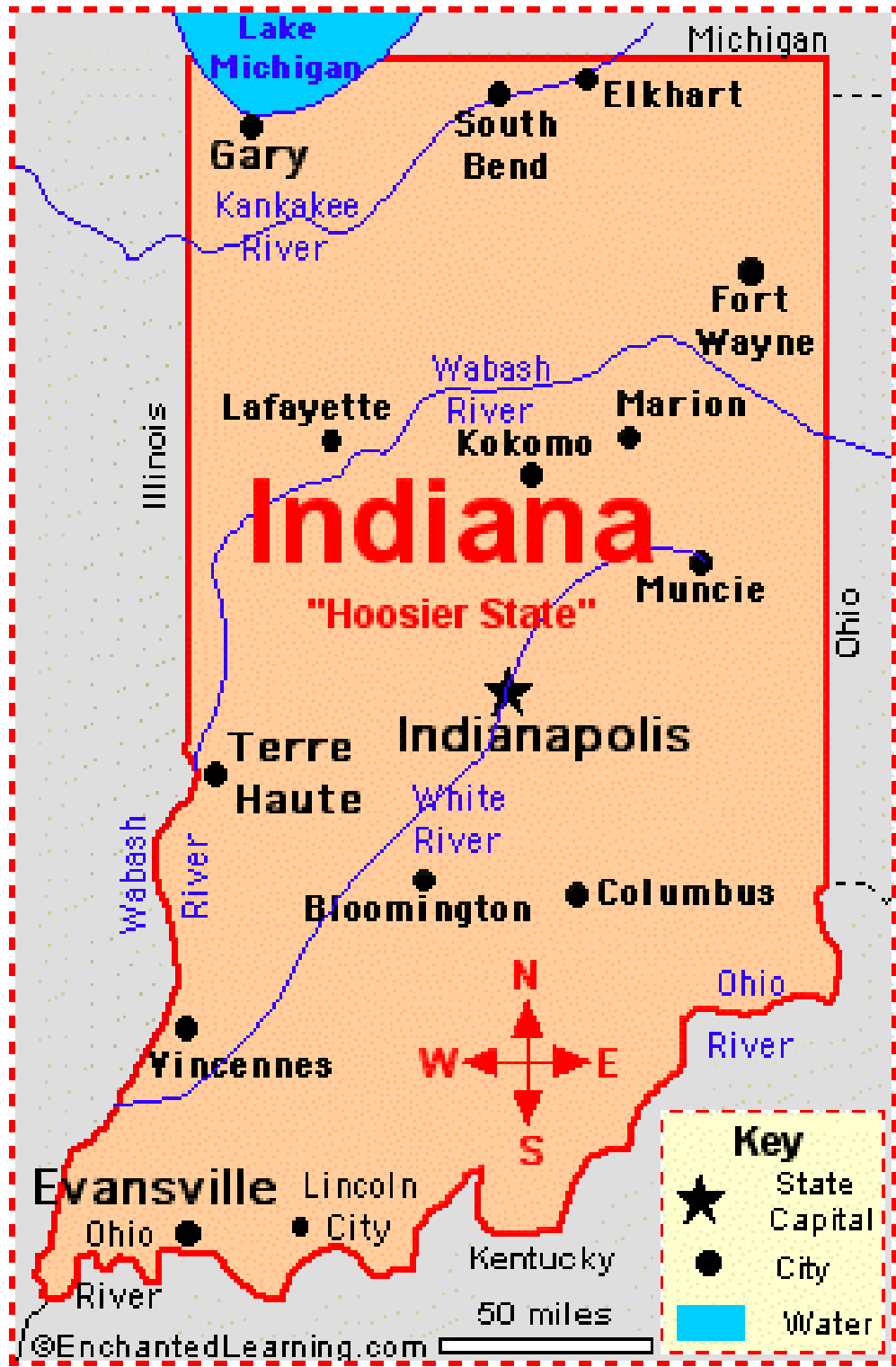
- After the students have turned in their scale of the distance between Rochester and Indiana. Explain to the student's one more time how we measured the distance in miles from Rochester to New York. The students can do this at any time now. They can see how far away they are from any of these great American Cities. Today later in math we will begin to talk about how far it will take us to get to these cities once we know how far away they are.

Adaptations/Enrichment

- Issac: Autism/Enrichment: Have him complete a harder city. Have him tell the difference between Rochester and Orlando Florida.
- Jordan: ADHD: Have him pass out the rulers for the students to use.
- Devin: ADD: He will try and quit on you about doing the work. If you let him tell you anything about the project and you make it a positive then he will gain confidence and want to complete it.
- Annie: Trouble Seeing: When in the circle make sure she is close to the teachers so she can see the pictures. Have her sit near the board when giving the examples and make sure she has her glasses on when she is working on her sheet.

Self Reflection

- Were the students on task when they were supposed to be working on their worksheets.
- Did the students understand how they can tell how far away somewhere is on a map.
- Was the activity too short?
- Was there enough time for the activity.



Post Test

Name: _____

1. What is the distance between Indianapolis and Rochester? _____

2. What is the distance between Indianapolis and South Bend? _____

3. Which is closer to us in Indiana, Oklahoma, or Tennessee? _____

4. Which is closer to Indianapolis, Vincennes or Gary? _____

5. How much closer is the answer to number 5 to

Indianapolis? _____

6. Which city is east of Indianapolis?

- a. Muncie
- b. Bloomington
- c. Lafayette
- d. Kokomo

7) What city is North of Kokomo?

- a) Bloomington
- b) South Bend
- c) Columbus
- d) Lafayette

8) How many miles is it from Indianapolis to South Bend? _____

9) How many miles is it from Bloomington to Columbus? _____

10) What direction are you traveling when you leave from Bloomington to go to

Columbus? _____