

Map Reading Ryan S. Adams

Lesson: Map Reading

Length: 35-45 minutes

Age or Grade Level Intended: 3rd grade

*Worksheet retrieved from <http://www.enchantedlearning.com/geography/>

Academic Standard(s):

History

3.3.1 The World in Spatial Terms: Use labels and symbols to locate and identify physical and political features on maps and globes. Ex. Label a map of the Midwest, identifying states, major rivers, lakes, and the Great Lakes.

Performance Objective(s):

Using a map, students will correctly label 7 out of 9 physical features from the provided worksheet.

Assessment:

Pre-Assessment:

Students will be given a map and asked to label different features on the map to pre-assess what prior knowledge they have about reading a map and following directions. A copy of the pre-assessment can be found below.

Post-Assessment:

Students will be given map activity two and asked to label and identify at least seven out of nine physical features on the map.

Advance Preparation by Teacher:

- Make adequate copies of the pre-assessment, post-assessment, and map activity one for each student within the classroom (30)
- Have a ruler available
- Locate the answer keys for the worksheets listed above
- Have a transparency copy of the Map Activity One which will be completed with the class.

Procedure:

Introduction/Motivation:

1. Good morning girls and boys today we are going to learn about using map skills! Can anyone tell the rest of the class about a time where they ever used a map to help them find the location of something? (**Bloom:** Knowledge) (**Gardner:** Interpersonal, Verbal- Linguistic) Do you think it is better to use an actual map or a GPS (Global Positioning Satellite)? (**Bloom:** Evaluation) (**Gardner:** Interpersonal, Verbal- Linguistic)
2. I want to see what skills you all already have about reading maps, so you will be taking short pre-test before we get started with our lesson! Do not worry this test is not for a grade! (The teacher should now hand each student a copy of the pre-test.)

Step-by-Step Plan:

3. Now that we have taken our pre-test, we are going to learn how to read maps so we are able to navigate our way around unfamiliar locations! Let's get started by completing a map activity together as a class. Place the transparency on the overhead and have the student of the day pass out a copy of the map to every student in the room. Tell the students to take out their colored pencils or crayons because we will need those for this activity. (**Gardner:** Visual/Spatial, Verbal-Linguistic, Interpersonal)
4. Now that every student has received a worksheet the teachers and the students will begin to work through the map activity together. While working through the map activity explain the following parts of a map to the students so they can recall the name and use of the symbols.
 - a. **Compass Rose:** a design on a map that shows directions
 - b. **Cardinal Directions:** The primary directions which (North, South, East and West)
 - c. **Scale:** helps find the distance on a map between two different locations.
 - d. **Symbol:** a picture that stands for something on a map
 - e. **Grid:** A map grid is used to locate specific coordinates (Vertical Lines are labeled with numbers, Horizontal Line are labeled with letters)
 - i. Find the specific location by choosing a number and letter and seeing where they both meet one another.
5. While completing the worksheet together and discussing the vocabulary words the teacher should ask students the following questions. These questions are different than those listed on the worksheet that will be completed in class.
 - a. What would happen if two locations appeared to be equally farthest south on a map? (**Bloom:** Application) How would you determine which location is the furthest south? (**A:** Students use the map scale to measure the distances between the locations to determine which one is the farthest south.) (**Bloom:** Evaluation)
 - b. What would be the best answer to determining which building is directly east of Moon River? (**A:** City Park) (**Bloom:** Comprehension)

- c. Why do you think you would use grid lines on a map? (**A:** Grid lines help you find a location on a map quickly so you do not have to waste time reading the names of every building. {Use a foldable map to show that towns and cities are listed on the back of some maps with the coordinates of the town or city})(**Bloom:** Analysis)
 - d. What would happen if there was no compass rose on a map? (**A:** People would not be able to tell what location they need to go to find a building.) (**Bloom:** Synthesis)
6. Now that students have completed a map skills worksheet with the teacher, students will be placed into groups of 2-3 to complete a practice map skills worksheet on their own. While students work on their worksheet, the teacher should walk around the room to assist whenever questions may arise. (**Gardner:** Visual-Spatial, Verbal/Linguistics, and Intrapersonal)
7. After all students have completed their worksheets, students should return to their seats and wait for further instructions. The teacher will take any questions that the students may have before administering the post-assessment. Students should work independently on the post-assessment so the teachers can determine if learning has taken place during the lesson.

Closure:

1. Once all post-assessments have been collected, ask students if they any last questions concerning how to read a map. Take a class vote to determine whether students think it is important or not to know how to correctly follow directions and read a map! After taking a class poll, the students will write two sentences defending whether or not they believe learning how to read a map is important. The teacher will collect these writings and provide students with participation points for completing the writing activity.
2. Tell the students that they will be working with map skills tomorrow during social studies to learn about longitude and latitude! These lines will help you understand why a globe has degrees listed around the side and top!

Adaptations/Enrichment:

Student with Learning disability in reading comprehension

- Read the directions with the student
- This student will work with the aide to help them comprehend the questions be asked on the worksheets.
- This student may also work with a paraprofessional or be pulled out into the resource room.

Student with ADHD

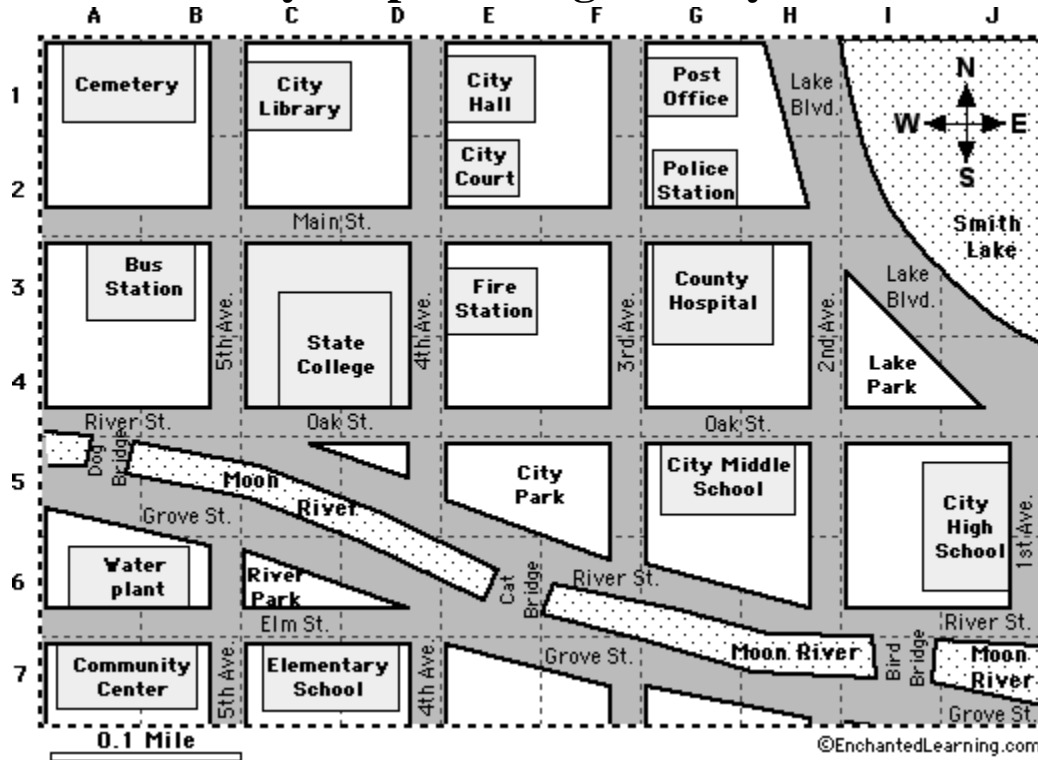
- This student will receive one direction at a time so they do not feel over loaded.
- This student will be placed in a group with other students that are trustworthy and that they have worked with in the past.
- This student will receive two questions at a time while completing the worksheets to prevent them from being overwhelmed. After the student completes two questions, the student will receive two more questions until all questions have been answered.

Autism

- Provide direct instruction for student
- Repeat the directions several times to be sure the student understands the directions.
- Use a positive behavioral support with this student by offering them incentives to work cooperatively.
- This student will also be placed with trustworthy students that they have worked with in the past.

Name: _____ # _____

City Map Reading Activity #1



1. Color the map as follows: Blue-water, Red-fire station, Orange-library, Yellow-schools, Green-parks, Pink-city hall, Purple-hospital, Brown-community center.

2. Draw a green "X" at the intersection of Oak Street and 2nd Avenue. Draw a black "X" where River Street meets Cat Bridge. Draw a blue "X" at the address 180 River St.

3. In red, draw a short street route from City High School to the City Library.

4. Which is farther east, the elementary or middle school?

5. Which is farther south, Lake Park or City Park?

6. How far (in miles) is it from the bus station to the hospital?

7. Which school's address is 250 Oak Street?

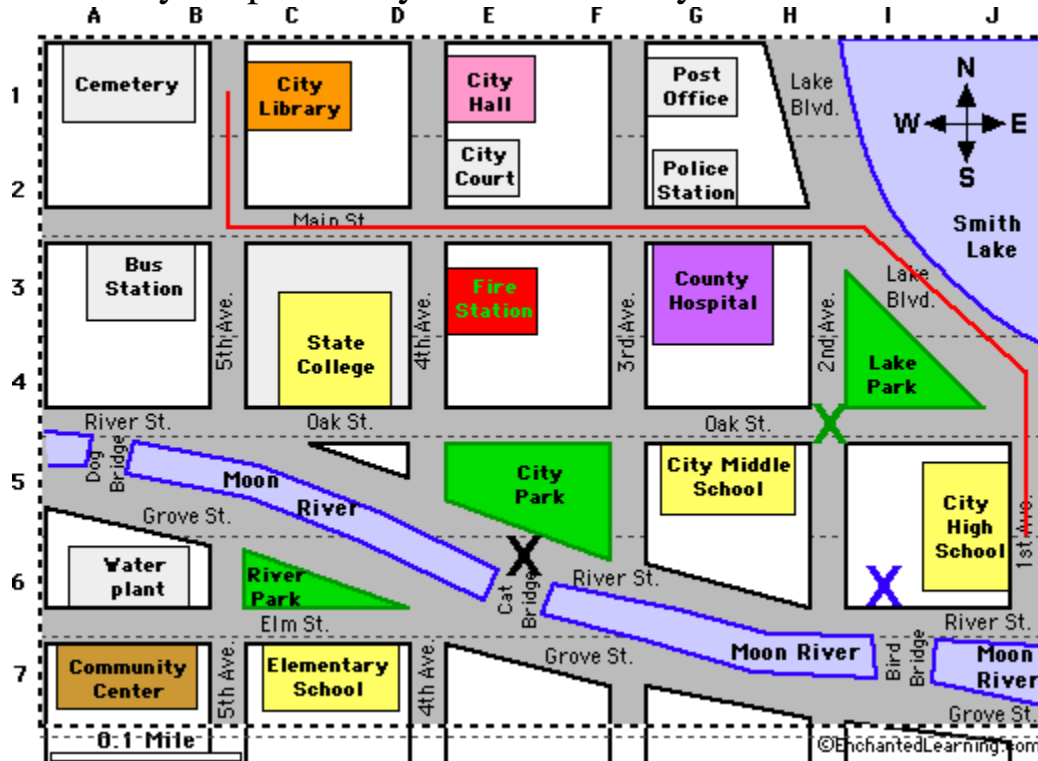
8. What city building is located at E3?

9. When you look northeast, you see River Park. When you look north, you see the Water Plant. When you look east, you see the Elementary School. Where are you?

Retrieved from:

<http://www.enchantedlearning.com/geography/mapreading/city/>

City Map Activity #1 Answer Key



1. Color the map as follows: Blue-water, Red-fire station, Orange-library, Yellow-schools, Green-parks, Pink-city hall, Purple-hospital, Brown-community center.

2. Draw a green "X" at the intersection of Oak Street and 2nd Avenue. Draw a black "X" where River Street meets Cat Bridge. Draw a blue "X" at the address 180 River St.

3. In red, draw a short street route from City High School to the City Library.

4. Which is farther east, the middle school or the elementary school?	<i>the middle school</i>
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5. Which is farther south, Lake Park or City Park?	<i>City Park</i>
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6. How far (in miles) is it from the bus station to the hospital?	<i>0.3 mile</i>
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7. Which school's address is 250 Oak Street?	<i>City Middle School</i>
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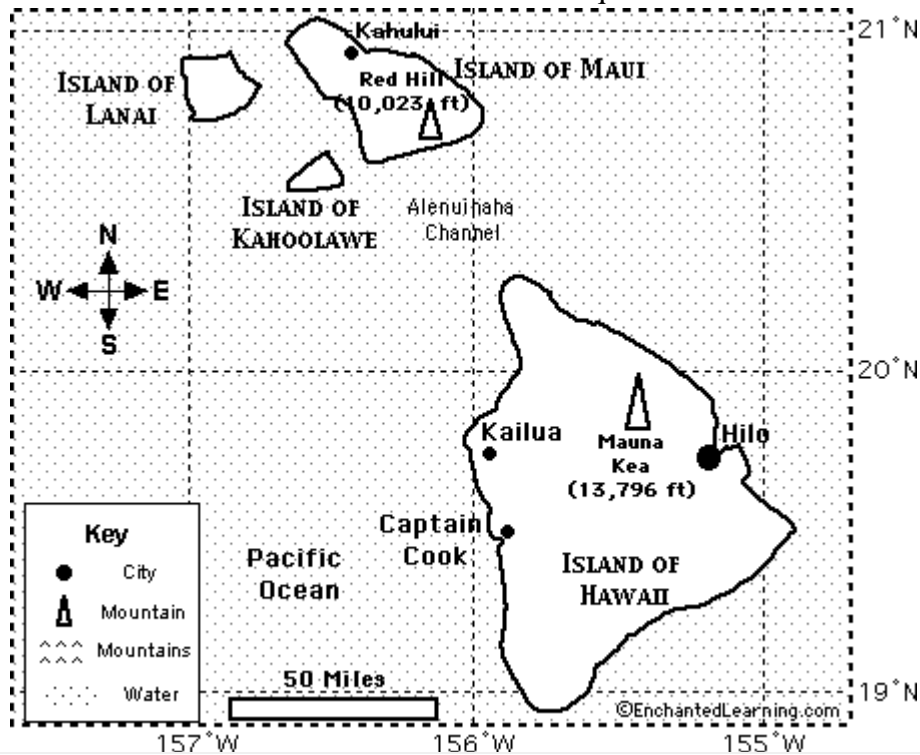
8. What city building is located at E3?	<i>Fire Station</i>
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9. When you look northeast, you see River Park. When you look north, you see the Water Plant. When you look east, you see the Elementary School. Where are you?	<i>At the Community Center</i>
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Name: _____ # _____

Map Practice

Follow the directions and answer the questions below.



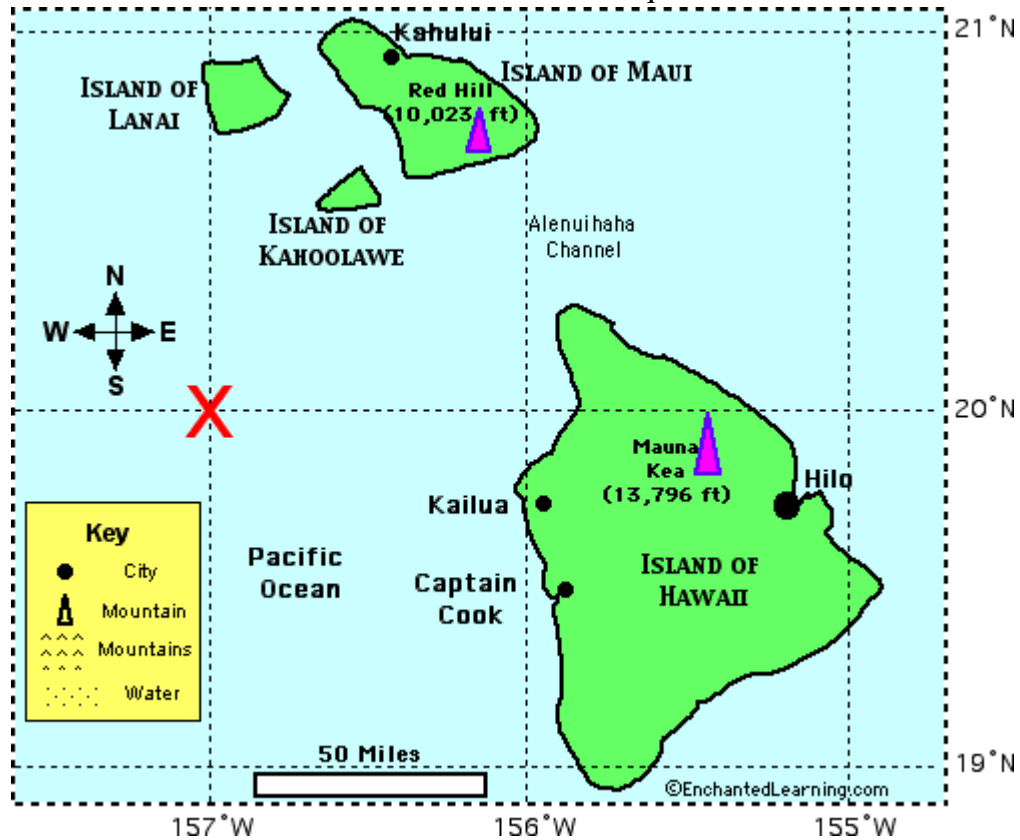
1. Color the water light blue, color the mountains purple, color the land light green, and color the key yellow.

2. What is the name of the largest island above?	
3. What is the name of the ocean in the map?	
4. Which island is farthest west?	
5. Which island is farthest south?	
7. About how many miles is it from Hilo to Captain Cook?	
8. What direction would you travel to go from Hilo to Mauna Kea?	

Retrieved from: <http://www.enchantedlearning.com/geography/mapreading/1.shtml>

Map Practice Key

Follow the directions and answer the questions below.



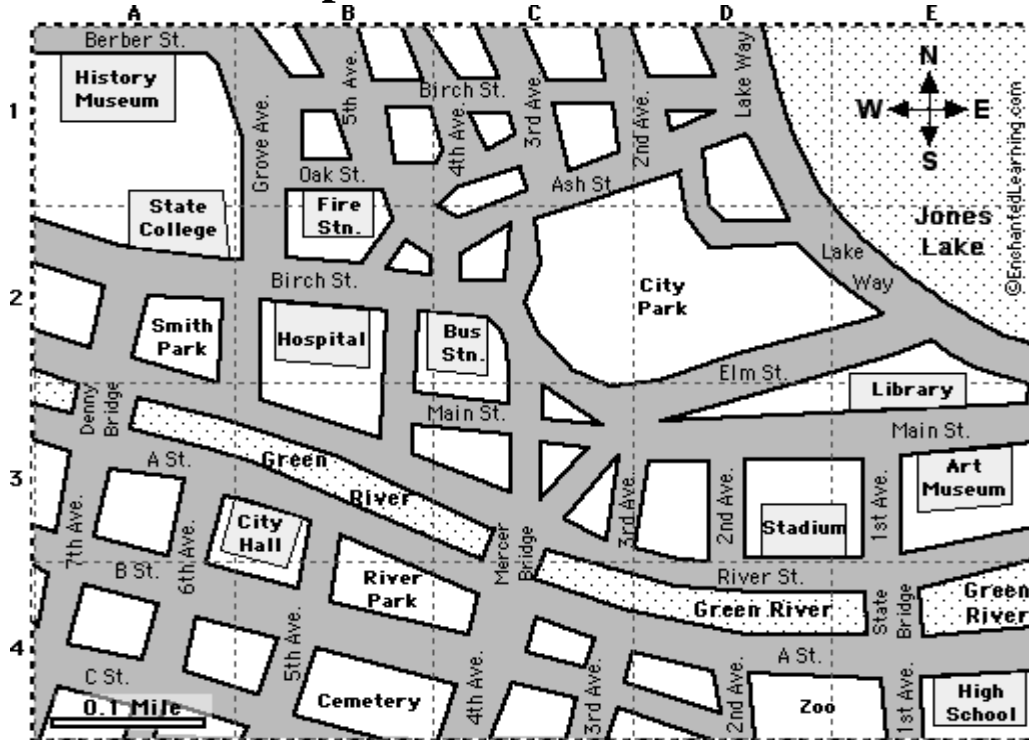
1. Color the water light blue, color the mountains purple, color the land light green, and color the key yellow.	
2. What is the name of the largest island above?	<u>Hawaii</u>
3. What is the name of the ocean in the map?	<u>Pacific Ocean</u>
4. Which island is farthest west?	<u>Lanai</u>
5. Which island is farthest south?	<u>Hawaii</u>
7. About how many miles is it from Hilo to Captain Cook?	<u>50 miles</u>
8. What direction would you travel to go from Hilo to Mauna Kea?	<u>NW</u>

Retrieved from:

<http://www.enchantedlearning.com/geography/mapreading/1answers.shtml>

Name: _____ # _____

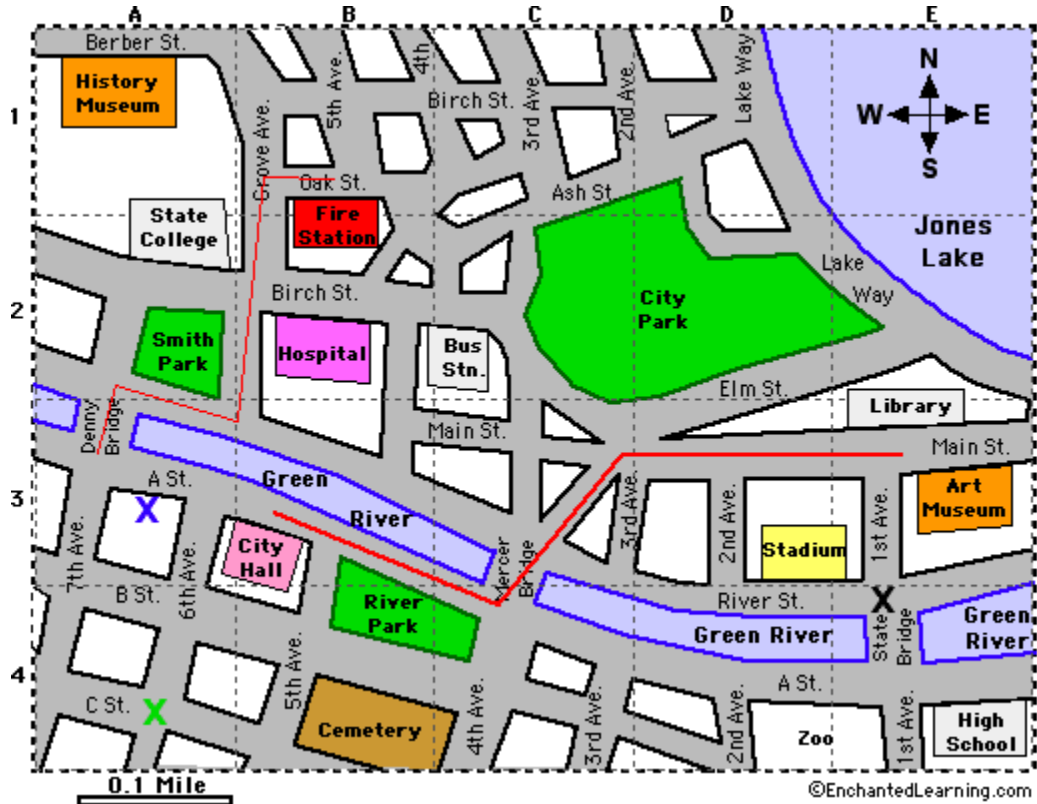
Map Post Assessment



1. Color the map as follows: Blue-water, Red-fire station, Orange-museums, Yellow-stadium, Green-parks, Pink-city hall, Purple-hospital, Brown-cemetery.	
2. Draw a green "X" at the intersection of C Street and 6th Avenue. Draw a black "X" where River Street meets State Bridge. Draw a blue "X" at the address 650 A St.	
3. In red, draw a short street route from the library to city hall.	
4. Which bridge is closest to the Art Museum?	
5. Which is farther north, River Park or City Park?	
6. How far (in miles) is it from the bus station to the hospital?	
7. If you cross Denny Bridge going north, turn right at River St., turn left at Grove Ave., turn right at Oak St. and walk half a block, what building do you see on your right?	
8. What park is located in A2?	
9. When you look north, you see the river. When you look east, you see the High School. Where are you?	

Retrieved from: <http://www.enchantedlearning.com/geography/mapreading/city2/>

Map Post-Assessment Answers



1. Color the map as follows: Blue-water, Red-fire station, Orange-museums, Yellow-stadium, Green-parks, Pink-city hall, Purple-hospital, Brown-cemetery.	
2. Draw a green "X" at the intersection of C Street and 6th Avenue. Draw a black "X" where River Street meets State Bridge. Draw a blue "X" at the address 650 A St.	
3. In red, draw a short street route from the library to city hall.	
4. Which bridge is closest to the Art Museum?	<i>State Bridge</i>
5. Which is farther north, River Park or City Park?	<i>City Park</i>
6. How far (in miles) is it from the bus station to the hospital?	<i>0.1 mile</i>
7. If you cross Denny Bridge going north, turn right at River St., turn left at Grove Ave., turn right at Oak St. and walk half a block, what building do you see on your right?	<i>the Fire Station (The route is marked in blue on the map above.)</i>
8. What park is located in A2?	<i>Smith Park</i>
9. When you look north, you see the river. When you look east, you see the High School. Where are you?	<i>At the Zoo</i>

Pre-Assessment

Name: _____ # _____

(Map created in Kidspiration ©)



1. Use a red crayon to draw a route from the library to the factory.
2. Which house is closest to the church? _____
3. Which building is farthest south? _____
4. When you look west, you see the school. When look north, you see the hospital. Where are you? _____
5. Draw an orange "X" at the intersection of Walnut Street and Yazel Street.

Answer Key:

6. Use a red crayon to draw a route from the library to the factory.
7. Which house is closest to the church? **House 1**
8. Which building is farthest south? **Factory**
9. When you look west, you see the school. When look north, you see the hospital. Where are you? **Library**
10. Draw an orange "X" at the intersection of Walnut Street and Yazel Street.