

# Lesson Plan 3: Communicating data

**SUBJECT(S):** Geography, Math

**GRADE LEVEL:** 7 - 10

**DURATION:** one class period

## Objectives

**Students will understand that:**

- maps allow us to share information in meaningful ways
- the type of information on a map is based on its intended use

**Students will be able to:**

- use symbols to represent information
- organize and communicate information effectively
- display spatial information in maps and charts

## Warm-up/Discussion

Have students look at the poster of the Chicago region that came with this book (or use the transparency of the poster enclosed). Ask students to name as many other landmarks or features as they can that could be added to the map and have them indicate the general area of the map where these features are located.

## Learning Activities

Re-group students so that at least one student who filled out the *City/County Profile* (pg. 42) handout for each county is in each group (so that the City of Chicago and the six counties are represented or use the *Comparing Data in the Chicago Region* [pg. 59]). Hand out the *unlabeled Chicago Region Map* (pg. 15). Have each group create a map that represents the population of each county by race and ethnicity. Tell them that it is up to them to decide how to represent the data, but to be sure to include a map legend so that others can interpret what they see on the map.

## Assessment

Group maps can be evaluated with the *Map Evaluation* (pg. 63) rubric.

## Materials Included:

- Chicago Region Map (unlabeled) (from Chapter 1; Lesson Plan 1) [pg. 15]
- City/County Profile (from Chapter 2; Lesson Plan 1) [pg. 42]
- Comparing Data in the Chicago Region (from Chapter 2; Lesson Plan 2) [pg. 59]
- Map Evaluation [pg. 63]

## Additional Materials Needed:

- None

## Vocabulary

**graphic:**

*pictorial representation*

## **Wrap-up/Reflection**

Have students look at the maps made by others and talk about features they think are particularly effective at communicating the information.

## **Ideas for Additional Activities**

Students can use Excel and PowerPoint or other software to create visual representations of the data collected in this lesson plan.

# Map Evaluation

**Name(s):** \_\_\_\_\_

**Date:** \_\_\_\_\_

<b>Element</b>	<b>Descriptors</b>	<b>Score</b>
Accuracy	The map presents relevant information and the legend is appropriate and accurate.	
Organization and Layout	The map is easy to understand; labels are appropriate and easy to read	
Creativity	The map uses color and/or shapes to convey information effectively. The map communicates information in an interesting way.	
Total:	Key: 1 = poor, 2 = fair, 3 = good, 4 = excellent	

