

**DePaul Center for Urban Education**  
**Chicago Math Connections**

This project is funded by the Illinois Board of Higher Education through the  
Dwight D. Eisenhower Professional Development program

**Topic: Biking Around Chicago**

**Goal(s): 6,7**

**Skills: creating ratios, locating points on a map, figuring out travel times.**

**What's the context?**

Chicago Map

**What resources will students use?**

Map of Chicago

**What will students learn from this project?**

**Know how** – what will they be able to do better?

Locate points and measure distance

Create ratios and calculate travel times

**Know what** – what idea(s) will they clarify through the project?

Students will gain a spatial sense of Chicago and make a connection between distance and travel times.

**What's the challenge?**

1). Locate your school on the Chicago map and choose five different destination points in the city.

2). Using the scale provided on the map, figure out the distance between your school and the five destinations you chose.

- Try to choose the most direct route!

3). Assuming you can pedal ten miles on a bike in one hour, calculate how long it will take to ride your bike to each of the five destinations separately.

**Checkpoint:** Exchange your calculations with a partner and check for accuracy.

As a pair, calculate how long it would take to travel these distances on foot walking four miles per hour.