
Using Foursquare in Coordinate Planes

Math Lesson Plan

Grade Level: 9-10

Overview

Graphing can be a very challenging aspect of math to the individual student. In this lesson plan, students will be allowed to work in pairs to complete the activity using the application, Foursquare.

Objectives

At the conclusion of this activity, students will be able to:

- Graph a set of coordinates
- Understand how to find coordinates on a grid
- Graph multiple coordinates to create a plane
- Understand slopes

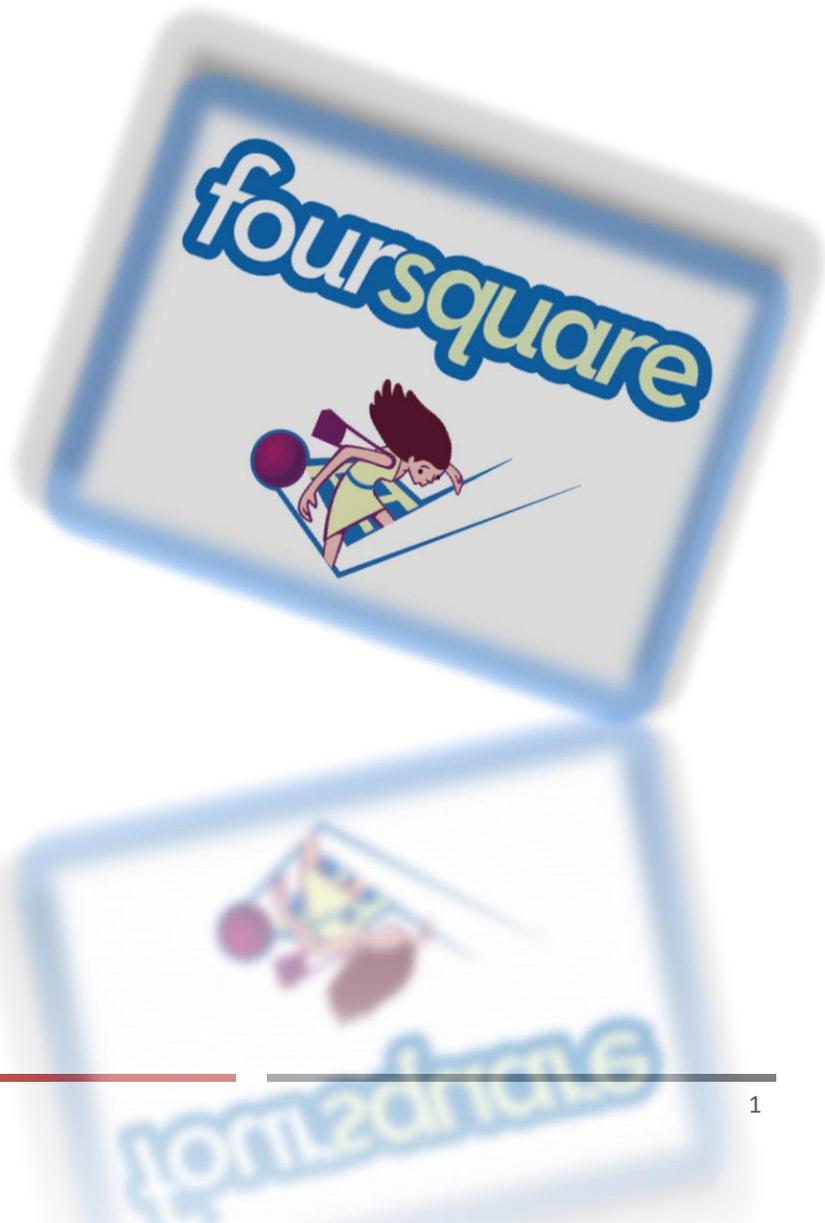
Activity

- Students will be grouped into pairs. One of the students in each group must either have a smart phone of their own with the Foursquare application downloaded, or have access to one.
- Each pair of students will be given a grid of Purdue University's campus, and a list of coordinates.
- The pair of students will plot the points of each coordinate on the map, and then identify which buildings correspond to the coordinates.

Materials

The materials needed include, but are not limited to:

- Pencil and paper
- Smartphone
- Foursquare application



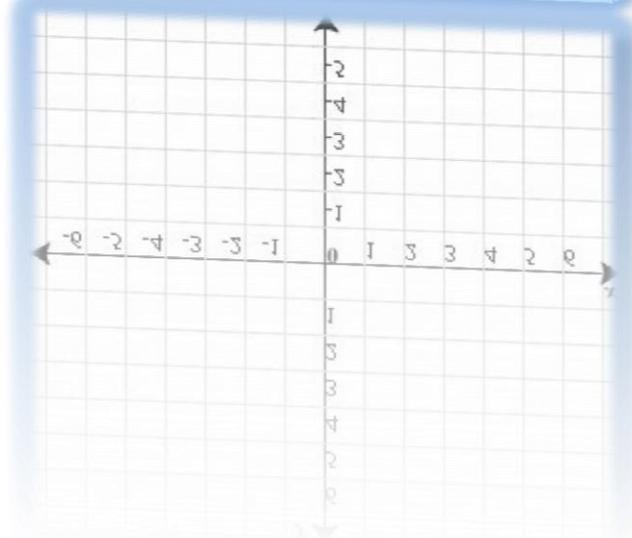
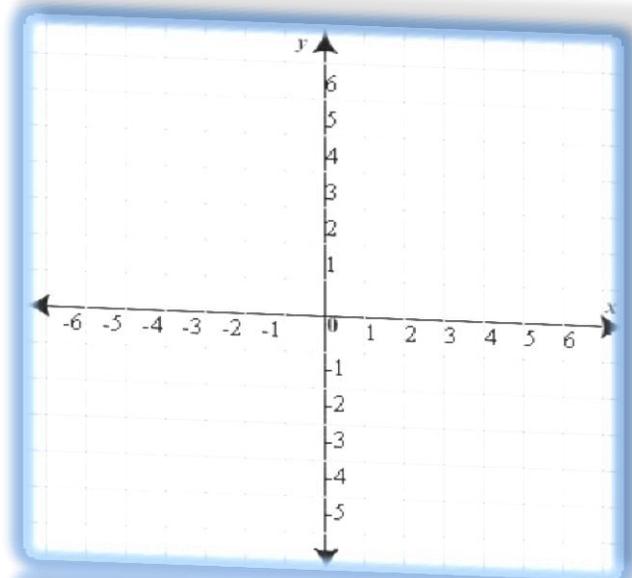
- The pair of students will then travel to each location they marked on their coordinate plan, and check in via Foursquare.
- Once the pair of students has successfully checked in to each destination, they will then go online to the Foursquare website and print off the locations they checked in at that day.

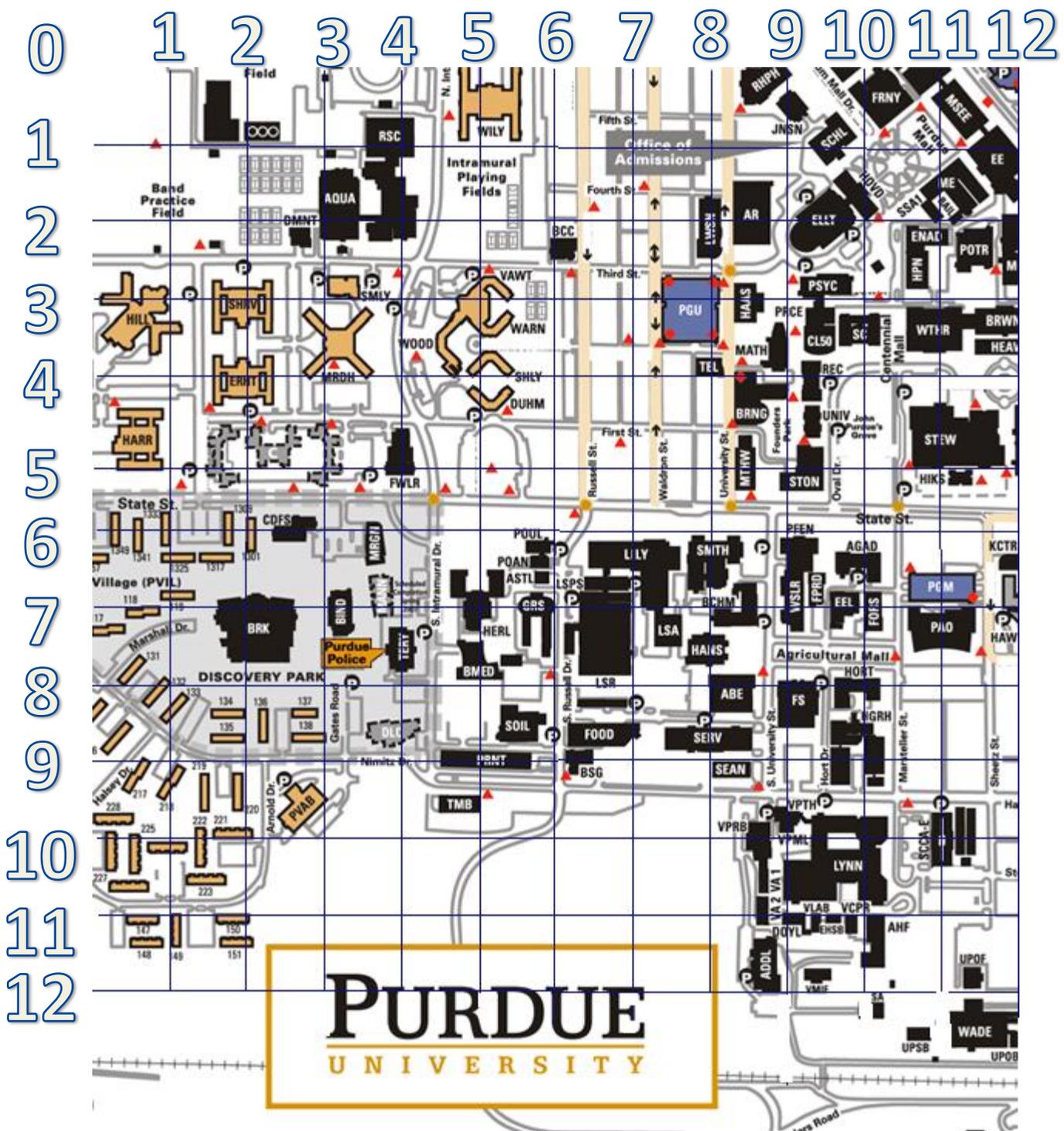
Procedures

Instruct the students on how to use the Foursquare application, and how to print off the locations that they checked in at that day. Also describe how to understand and plot points given a set of coordinates. Describe the activity they are to complete, and group them in pairs. After they have been given a partner, send them on their way.

Evaluation

The student should now have a better understanding of how to plot points, locate and understand the points they plotted, and have a good understanding of how to use the application Foursquare.





Coordinates

- (2,3)
- (2,4)
- (2,7)
- (4,1)
- (4,5)
- (5,3)
- (5,7)
- (5,9)
- (8,3)
- (10,8)

Resources

- *Information found at*:
- <https://foursquare.com/>

- Pictures from:

- http://www.purdue.edu/police/images/campus_map.jpg

- <http://nerdberry.net/wp-content/uploads/2011/02/foursquare.jpg>

- <http://harmon-middle-school.wikispaces.com/file/view/coordinate.JPG/30539153/coordinate.JPG>