

# SUPPLEMENTAL LESSONS

**Mathematics Grade 7  
3rd Quarter**



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# 3rd Quarter Grade 7 Supplemental Lesson Plan

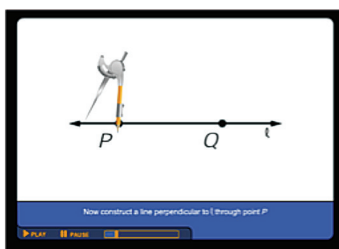
## Constructing Triangles, Squares, Rectangles, Regular Pentagons, and Regular Hexagons

### Introduction

1. Prepare the class for the activity.
2. Let the students prepare the materials for the construction activity:
  - a. ruler
  - b. protractor
  - c. compass
  - d. paper
  - e. pencil and eraser

### Body

1. Demonstrate to the class how to construct triangles, squares, and rectangles step by step, or let the students watch a video presentation on how to construct these polygons. (Sample sites: <http://www.glencoe.com/sites/texas/student/mathematics/assets/animation/geometry/GEOMCIM6-4.swf> ; <http://www.regentsprep.org/Regents/math/geometry/GC1/LIsosConstruct.htm>)



2. Then, let the students draw a triangle, a square and a rectangle after each demonstration.

### Knowledge

Constructing polygons

### Learning Competency

#### M7GE-IIIh-i-1

- Constructs triangles, squares, rectangles, regular pentagons, and regular hexagons

### KU

- Points, lines, line segments, rays, and/or angles may be combined to form polygons.

### KQ

- How are points, lines, line segments, rays, and angles related?

3. Check the students' work.

Extend the discussion on how to construct regular polygons like pentagon and hexagon, but this time, let the students follow the instructions on how to construct by themselves. Conduct a spin-off *Power of Two* (Bellanca, 2009) for this activity. (Sample site: <http://www.wikihow.com/Construct-Regular-Polygons-Using-a-Circle>)

- a. Ask the students to follow the instructions on how to construct a regular pentagon and hexagon individually.
- b. When all the students have finished the task, ask them to form pairs.
- c. Instruct each pair to discuss and compare their construction.

### Conclusion

Conduct a spin-off *3-2-1* (Rutherford, 2008) activity.

Ask the students to write on a piece of paper their thinking on the:

- 3 important facts they learned
- 2 questions about the lesson
- 1 realization about the lesson

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