

# 1-19 Geometry Construction Project



Name: \_\_\_\_\_ Period: \_\_\_\_\_

Due date: \_\_\_\_\_

Project - will be counted as an ASSESSMENT on constructions

Create a picture on a clean sheet of white or colored unlined paper that includes each of these constructions:

1. Copying an angle
2. Perpendicular bisector
3. Midpoint of a line
4. Angle bisector
5. Equilateral triangle
6. Choose 1: square or regular hexagon
7. Choose 1: parallel lines or perpendicular lines

Be neat, creative and have fun with this! Here are some ideas for your project:

- Abstract design
- Underwater design (e.g. Finding Nemo or SpongeBob Squarepants theme)
- Landscape
- Building or house
- Playground
- Football or soccer field, basketball court
- Your name or initials in a design

For each construction, label the construction with the number next to it so I can identify all 7 constructions. You may only use a compass and straightedge for your constructions. Arcs must be shown. The actual drawing may be done in light pencil, and then colored in. Turn this paper in attached to your drawing. The grading rubric is on the back of this paper - use it as a checklist!

## Geometry Construction Project RUBRIC

	Advanced Proficient	Proficient	Below Proficient
Picture 1. Colorful 2. Creative 3. Neat	<u>3 points</u> 3 of the requirements fully met	<u>2 points</u> 2 of the requirements fully met	<u>1 point</u> 1 of the requirements fully met
7 Constructions 1. Duplication of an angle 2. Perpendicular bisector 3. Midpoint of a line 4. Angle bisector 5. Equilateral triangle 6. Choose 1: square or regular hexagon 7. Choose 1: parallel or perpendicular lines	<u>5 points each</u> <ul style="list-style-type: none"> <li>▪ 2 pts: compass and straightedge are used (no freehand lines or arcs) with arcs shown</li> <li>▪ 2 pts: construction is accurate</li> <li>▪ 1 pt: construction is properly labeled</li> </ul>	<u>2 points each</u> <ul style="list-style-type: none"> <li>▪ Partial credit given for arcs or accuracy</li> <li>▪ Construction is labeled</li> </ul>	<u>1 points each</u> <ul style="list-style-type: none"> <li>▪ Partial credit given for arcs or accuracy</li> </ul>
Instructions followed 1. This grading rubric is attached 2. Name is on this sheet	<u>2 points</u> 2 requirements met	<u>1 points</u> 1 requirement is met	<u>0 points</u> neither requirement is met
Turned in: <ul style="list-style-type: none"> <li>▪ early: +2</li> <li>▪ late: -2/day</li> </ul>			
TOTAL POINTS EARNED (40 possible)			