

Credit Recovery Instructions for Geometry

Below is a list of 12 self-guided lessons covering all the topics of geometry that you will need to know in order to earn credit for summer-school. You may already know these topics. To find out, you will take a pre-assessment quiz on each of the 12 topics before beginning the self-guided lessons. If you earn a 70% on each of the pre-assessments, you are exempt from the self-guided lessons and from the post assessment for that topic. However if you do not earn a grade of 70% on the pre-assessment, you must go through the corresponding self-guided lesson below followed by the post-assessment for that unit. Go through the lessons and practice problems for each one of the self-guided topics below BEFORE taking the post assessment. When you complete the topic, take the post-assessment for that unit only. Once you complete the post-assessment for a particular unit, proceed to the next unit's pre-assessment and repeat the process until you've completed either a pre or post assessment on each of the 12 units.

Keep in mind that you cannot retake a Castle Learning assessment once you complete it. The grade you get for that topic's assessment will be factored into your overall grade for the Credit Recovery program. For that reason it is critical that you go through each lesson below before you take the Castle Learning assessments if you did not earn at least a 70% on the pre-assessment.

1. [Parallel Lines](#)
2. Coordinate Geometry
 - a) [Slope and the equation of a line](#)
 - b) [Midpoint Formula](#)
 - c) [Distance Formula](#)
3. Quadrilaterals and other polygons
 - a) [Quadrilaterals](#)
 - b) [Interior and exterior angles of polygons](#)
4. Transformation Geometry
 - a) [Symmetry](#)
 - b) [Reflections over a line and a point](#)
 - c) [Translations](#)
 - d) [Dilations](#)
 - e) [Rotations](#)
 - f) [Notation for Transformations](#)

- g) [Composition of Transformations](#)
- 5. Triangle Theorems
 - a) [Angles in Triangles](#)
 - b) [Isosceles Triangles](#)
 - c) [Triangle Inequalities](#)
 - d) [Mid-segment of a Triangle](#)
- 6. [Triangle Congruence](#)
- 7. Circle Geometry
 - a) [Chords, secant and tangent lines](#)
 - b) [Angles and arcs](#)
- 8. [Similar Polygons](#)
- 9. [Equations of a Circle](#)
- 10. [Area of 2D Figures \(Polygons\)](#)
- 11. [Logic](#)
- 12. [Solid Geometry \(volume\)](#)