

Geometry Summer Packet Summer 2018

On this, and the following page, you'll find links to both online resources and to a printable .pdf file that contain a list of the working vocabulary / important terms that are prerequisite for mastering the language and problem-solving skills for your upcoming 2018 - 2019 school year's Geometry class.

You are strongly encouraged to seek out online resources to reinforce or enhance your learning and comprehension of any or all the terms on the given list. Use the chapter subheadings in the outline to search for more resources on a given topic.

Your skills and vocabulary mastery will be assessed by your teacher during the first or second week of school using a traditional assessment (Quiz or Test) and/or an alternative assessment (Project). It should also be stressed that Geometry vocabulary and its associated terms are used on a daily basis throughout the course and your level of success in the course is often predicated on your vocabulary skill level.

Use the suggested links on the next page to further your understanding, refresh your memory, or practice basic problem-solving skills using your geometric knowledge.

CHAPTER 1

Basic Geometry:

<https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-geometry/measuring-segments-tutorial/v/language-and-notation-of-basic-geometry>

<https://www.youtube.com/watch?v=il0EJrY64qE>

Angle relationships:

<https://www.khanacademy.org/math/basic-geo/basic-geo-angles/basic-geo-angle-relationships/v/complementary-and-supplementary-angles>

Distance and midpoint formulas:

<https://www.khanacademy.org/math/geometry/analytic-geometry-topic/cc-distances-between-points/v/distance-formula>

CHAPTER 2

Geometry inductive deductive reasoning:

https://www.khanacademy.org/math/precalculus/seq_induction/deductive-and-inductive-reasoning/v/deductive-reasoning-1

Conditional statements:

https://www.youtube.com/watch?v=Gd_jWkJKg2A

Algebraic Proofs:

<https://www.youtube.com/watch?v=rhcUwjfCN8M>

Geometric Proofs:

<https://www.youtube.com/watch?v=OvSvTthhhNo>

Chapter 3

Parallel and Perpendicular Lines, transversals, angle properties:

<https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-geometry/cc-8th-angles-between-lines/v/identifying-parallel-and-perpendicular-lines>

Find and use slopes of lines

<https://www.khanacademy.org/math/algebra/two-var-linear-equations-and-intro-to-functions/point-slope/v/point-slope-and-slope-intercept-form-from-two-points>

Writing equations of parallel and perpendicular lines:

<https://www.khanacademy.org/math/geometry/analytic-geometry-topic/parallel-and-perpendicular/v/equations-of-parallel-and-perpendicular-lines>

Graphing linear equations:

<https://www.khanacademy.org/math/algebra/two-var-linear-equations-and-intro-to-functions/solutions-to-two-var-linear-equations/v/2-variable-linear-equations-graphs>