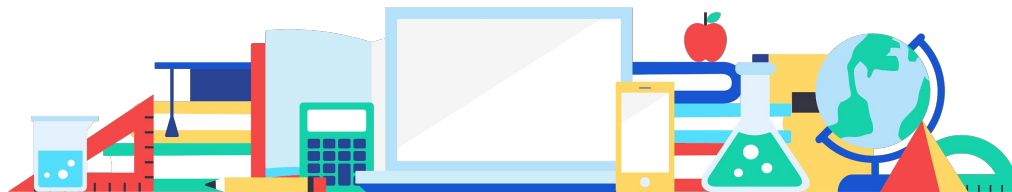




# Geometry Topics & Resources

Updated March 2020



# Key Topics

## Key Topics Covered in Geometry

- Geometry Fundamentals
  - ◆ Points, lines & planes
  - ◆ Line segments & rays
  - ◆ Angles
  - ◆ Parallel & perpendicular lines
- Polygons
  - ◆ Triangles
  - ◆ Quadrilaterals (including rectangles, squares, parallelograms, rhombuses, trapezoids)
  - ◆ Regular vs. irregular polygons
- Perimeter, Area & Volume
  - ◆ Perimeter & area
  - ◆ Volume & surface area
- Circles
  - ◆ Tangents
  - ◆ Arcs & chords
  - ◆ Degrees & radians
  - ◆ Inscribed circles
- Congruence & Similarity
- Symmetry & Transformation
  - ◆ Rotations & dilations
  - ◆ Reflections
  - ◆ Translations
  - ◆ Symmetry
- Triangles
  - ◆ Medians, altitudes & bisectors
  - ◆ Introduction to right triangles & trigonometry
- Analytical Geometry
  - ◆ Cartesian coordinate system
  - ◆ Distance & midpoint
  - ◆ Line segments
- Solid Geometry
- Introduction to Proofs
  - ◆ Conditional statements & converses
  - ◆ Deductive & inductive reasoning

# Geometry

## Additional Resources

- <https://www.khanacademy.org/math/geometry>
- <https://www.mathplanet.com/education/geometry>
- <https://www.sparknotes.com/math/>
- <http://mathguy.us/Handbooks/GeometryHandbook.pdf>
- <http://teachers.dadeschools.net/mcooper/GeometryReviewEOC.html>
- <https://www.mathsisfun.com/geometry/index.html>
- [https://www.nysmathregentsprep.com/uploads/6/2/3/2/62326735/final\\_3\\_-\\_geometry\\_\[common\\_core\]\\_regents\\_review\\_sheet\\_-\\_facts\\_you\\_must\\_know\\_cold.pdf](https://www.nysmathregentsprep.com/uploads/6/2/3/2/62326735/final_3_-_geometry_[common_core]_regents_review_sheet_-_facts_you_must_know_cold.pdf)
- <https://www.radford.edu/~wacase/Geometry%20Notes%201.pdf>