

CCSS Geometry (G)

Unpacking the Standards

Grade 1

Geometry: Reason with shapes and their attributes.


Standard: 1.G.1

Cluster: additional/supporting (a/s)

Math Practices: MP 1, 3, 4, 7

Related CA Standard
MG 2.2 Classify familiar plane and solid objects by common attributes

Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size) ; build and draw shapes to possess defining attributes. Note: *For two and three-dimensional shapes

| Essential Skills/Concepts | Teaching Notes/Strategies | Resources |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> - Understand attributes that make up a shape - Understand the difference between defining and non-defining attributes: <p>Defining Attributes: number of sides, edges, faces, vertices/points, straight sides, closed figure</p> <p>Non-defining attributes: color, overall size and orientation</p> <ul style="list-style-type: none"> - Know how to draw/build shapes - Compare and Contrast two and three-dimensional shapes - Expose students to irregular shapes and discuss why they are not regular shapes | <ul style="list-style-type: none"> - Shape Exploration Station - Group projects/Presentations on specific shapes - Collaborative Conversations <p>Example: A student might describe a triangle as "right side up" or "red", but students learn these are not defining attributes because they are not relevant to whether a shape is a triangle or not.</p> <p>"I know that this shape is a triangle because it has 3 sides. It's also closed. not open."</p> <div style="text-align: center;">  </div> | <p>Board Math Paper/tape Posters</p> <p>Academic Vocabulary: shape, closed, open, side, attribute, feature, two-dimensional, rectangle, square, trapezoid, triangle, three-dimensional, cube, cone, prism, cylinder, regular shape</p> <p><u>From previous grades:</u> circle, rectangle, hexagon, sphere, cube, cone, cylinder</p> <p>"Attributes" and "features" are used interchangeably as describing defining and non defining attributes</p> |

Geometry: Reason with shapes and their attributes.

Standard: 1.G.2

Cluster: additional/supporting (a/s)

Math Practices: MP 1, 4, 7

Related CA Standard
NA

Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.



a figure made up of two or more geometric shapes,

| Essential Skills/Concepts | Teaching Notes/Strategies | Resources |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">- Prerequisite 1.G.1- Notice shapes within an already existing shape | <ul style="list-style-type: none">- Provide cutout of shapes and ask students to combine them to make a particular shape- Solving shape puzzles- Constructing designs with shapes- Collaborative Conversations- Group Projects and Oral Presentations | Pattern Blocks Plastic Shapes Tangrams http://www.abcya.com/tangrams.htm (interactive tangram puzzles) |
| Academic Vocabulary: See 1.G.1 | | |

Geometry: Reason with shapes and their attributes.

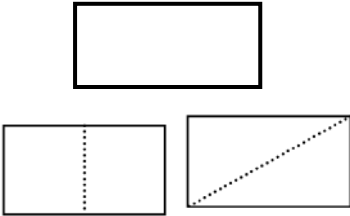
Standard: 1.G.3

Cluster: additional/supporting (a/s)

Math Practices: MP 2,3, 6

Related CA Standard
NA

Partition circles and rectangles into two and four equal shares, describe the shares using the words *halves*, *fourths*, and *quarters*, and use the phrases *half of*, *fourth of*, and *quarter of*. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.

| Essential Skills/Concepts | Teaching Notes/Strategies | Resources |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <ul style="list-style-type: none"> - Partition regions into equal shares using a context (e.g., cookies, pies, pizza). This is a foundational building block of fractions - Recognize that halves of two different wholes are not necessarily the same size. - Partition = share equally | <p>Ex. How can you and a friend share equally (partition) this piece of paper so that you both have the same amount of paper to paint a picture?</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> - Anchor Chart - Cut paper plates/paper into halves/fourths - Fold paper into partitions - Board Math - Collaborative Conversations - Group Projects - Exploration Station - Real life situations (cutting a cake/pizza) | <p>Paper plates Paper</p> |
| <p>Academic Vocabulary: See 1.G.1 partition, equal shares, halves, fourths, quarters, half of, fourth of, quarter of</p> | | |
| | | |