

Math 6+: Geometry

Spatial Reasoning, Similarity, Congruence, and Scale Factors

Spatial Concepts and Symmetry

Students	Learning Continuum Statements:
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Students:	
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	RIT 151-160:
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- Understands location words

Students:	
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	RIT 161-170:
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- Identifies the figure formed by folding and/or cutting a shape
- Recognizes lines of symmetry in 2-D figures
- Understands location words

Students:	
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	RIT 171-180:
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- Composes or decomposes 2-D shapes to form new shapes
- Identifies 2-D figures which have line symmetry
- Identifies 3-D shapes given multiple views
- Identifies multiple views of structures composed of cubes
- Identifies the figure formed by folding and/or cutting a shape
- Recognizes lines of symmetry in 2-D figures
- Understands location words

Students:	
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	RIT 181-190:
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- Composes or decomposes 2-D shapes to form new shapes
- Determines the number of lines of symmetry in 2-D figures
- Identifies 2-D figures which have line symmetry
- Identifies and creates nets for prisms
- Identifies and creates nets for pyramids
- Identifies multiple views of structures composed of cubes
- Identifies the figure formed by folding and/or cutting a shape

Students:	
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	RIT 191-200:
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- Composes or decomposes 2-D shapes to form new shapes
- Determines the number of lines of symmetry in 2-D figures
- Identifies 2-D figures which have line symmetry
- Identifies and creates nets for cones
- Identifies and creates nets for prisms
- Identifies and creates nets for pyramids
- Identifies multiple views of structures composed of cubes
- Identifies the figure formed by folding and/or cutting a shape

Students:**RIT 201-210:**

- Composes or decomposes 2-D shapes to form new shapes
- Composes or decomposes 3-D shapes to form new shapes
- Determines the number of lines of symmetry in 2-D figures
- Identifies 2-D figures which have line symmetry
- Identifies 2-D figures which have rotational symmetry
- Identifies and creates nets for cones
- Identifies and creates nets for prisms
- Identifies and creates nets for pyramids
- Identifies multiple views of structures composed of cubes
- Identifies the figure formed by folding and/or cutting a shape

Students:**RIT 211-220:**

- Determines the number of lines of symmetry in 2-D figures
- Identifies 2-D figures which have rotational symmetry
- Identifies and creates nets for cones
- Identifies and creates nets for cylinders
- Identifies and creates nets for prisms
- Identifies single views of 3-D shapes
- Identifies single views of structures composed of cubes
- Identifies the figure formed by folding and/or cutting a shape

Students:**RIT 221-230:**

- Identifies and creates nets for cones
- Identifies and creates nets for cylinders
- Identifies and creates nets for prisms
- Identifies single views of 3-D shapes
- Identifies single views of structures composed of cubes

Students:**RIT 231-240:**

- Identifies and creates nets for cylinders
- Identifies and creates nets for prisms
- Identifies single views of structures composed of cubes

Students:**RIT 241-250:**

- Identifies 3-D shapes using cross-sections
- Identifies single views of structures composed of cubes
- Identifies symmetries of spheres
- Identifies the cross-sections of 3-D shapes

Students:

RIT 251-260:

- Identifies the 3-D shape created when a 2-D shape is rotated around an axis
- Identifies the cross-sections of 3-D shapes
- Identifies the rotational or reflectional symmetry of a shape

Students:

RIT 261-270:

- Identifies the 3-D shape created when a 2-D shape is rotated around an axis
- Identifies the cross-sections of 3-D shapes

Students:

RIT 271-280:

- Identifies the 3-D shape created when a 2-D shape is rotated around an axis

Students:

RIT 281-290:

- Identifies the 3-D shape created when a 2-D shape is rotated around an axis