Spatial Reasoning

Lesson	Common Core State Standards in Math
Lesson 1: Preassessment	2.G.A Reason with shapes and their attributes. 3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 3.G.A Reason with shapes and their attributes. 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume. 7.G.A Draw construct, and describe geometrical figures and describe the relationships between them. 8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.
Lesson 2: Introduction to Dimensions	2.G.A Reason with shapes and their attributes. 3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
Lesson 3: Slides, Flips, Turns, and Glides	4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.
Lesson 4: Reflections and Symmetry	4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.
Lesson 5: Polygons and Tangrams	2.G.A Reason with shapes and their attributes. 3.G.A Reason with shapes and their attributes. 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 5.G.B Classify two-dimensional figures into categories based on their properties. 8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.
Lesson 6: Polyominoes	3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 3.MD.D Geometric measurement: recognize perimeter. 4.OA.C Generate and analyze patterns. 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
Lesson 7: Nets, Drawings, and Mat Plans	3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume.
Lesson 8: Projections and Slices	3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume. 7.G.A Draw construct, and describe geometrical figures and describe the relationships between them. HSG-GMD.B Visualize relationships between two-dimensional and three-dimensional objects.
Lesson 9: Postassessment	2.G.A Reason with shapes and their attributes. 3.MD.C Geometric measurement: understand concepts of area and relate area to multiplication and to addition. 3.G.A Reason with shapes and their attributes. 4.G.A Draw and identify lines and angles, and classify shapes by properties of their lines and angles. 6.G.A Solve real-world and mathematical problems involving area, surface area, and volume. 7.G.A Draw construct, and describe geometrical figures and describe the relationships between them. 8.G.A Understand congruence and similarity using physical models, transparencies, or geometry software.