

Math Target - Spatial Sense Geometry

Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Pre-Algebra	Algebra
___ I can locate and describe the placement of objects with terms such as: on, inside, outside, above, below, over, under, beside, between, in front of, behind, next to, top, bottom.	___ I can recognize, name, sort, and describe two-dimensional shapes according to their geometrical attributes: square, circle, triangle, rectangle, oval, octagon and hexagon.	___ I can know the difference between horizontal and vertical.	___ I can identify and describe common two and three-dimensional shapes.	___ I can classify triangles as equilateral, isosceles or scalene; and right, acute or obtuse.	___ I can classify triangles, triangles, trapezoids, parallelograms, rhombus, square, and quadrilaterals.	___ I can classify polygons as trapezoid, parallelogram, rectangle, rhombus, square, and quadrilateral.	___ I can use numbers to identify and measure objects.
___ I can identify basic two-dimensional (plane) figures. (square, triangle, circle, oval, rectangle, diamond)	___ I can recognize, name, sort and describe three-dimensional shapes according to their geometrical attributes: cone, pyramid, cube and sphere.	___ I can identify vertices and sides of a two-dimensional object.	___ I can identify a right angle, less than right angle, and greater than right angle.	___ I can name two-dimensional polygons.	___ I can calculate the perimeter and area of rectangle, square, triangle parallelograms, and complex figures.	___ I can create models of three-dimensional geometric shapes from two-dimensional representations.	___ I can identify polygons and parts of polygons.
	___ I can investigate and predict the results of putting together and taking apart two-dimensional shapes.	___ I can identify sides and vertices in a plane shape.	___ I can identify congruent figures and lines of symmetry in two-dimensional objects.	___ I can describe the characteristics of a polygon.	___ I can use a protractor to measure and draw angles.	___ I can identify symmetry in two and three-dimensional shapes.	___ I can discover properties of polygons.
	Identify corners and sides of a two-dimensional object.	___ I can recognize, draw and sort plane shapes.	___ I can find perimeter of polygons.	___ I can identify a line.	___ I can identify diameter, radius, and chord of a circle.	___ I can predict the position and orientation of simple geometric shapes under transformations such as reflections, rotations, and translations.	___ I can simplify expression in geometry.
	___ I can identify lines of symmetry in two-dimensional objects.	___ I can identify plane shapes that have a line of symmetry.	___ I can find the area of polygons.	___ I can identify a vertex.	___ I can calculate area and circumference of a circle using diameter and radius.	___ I can calculate the surface area of prisms and cylinders.	___ I can plot points in a coordinate plane
		___ I can draw a line of symmetry in plane shapes.	___ I can find the volume of simple solid figures.	___ I can identify a ray.	___ I can draw and interpret nets.	___ I can calculate the area and perimeter of triangles and parallelograms by measuring, using a grid or formula.	___ I can use a coordinate plan to represent data graphically.

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		___ I can recognize and compare congruent shapes.		___ I can identify an angle.	___ I can predict the position and orientation of simple geometric shapes under transformations such as reflections, rotations, and translations.	___ I can find volume of rectangular prisms and cylinders.	___ I can use equations to model problems in geometry.
		___ I can recognize and sort solid shapes.		___ I can draw congruent polygons.		___ I can measure, identify, and draw perpendicular and parallel lines, angles, and rectangles by using appropriate tools such as straightedge, rule, compass, protractor, or software.	___ I can use simple geometric figures to estimate area.
		___ I can draw symmetrical shapes using plane shapes and solid shapes.		___ I can draw lines of symmetry.		___ I can use the facts about angles, including the relationship between complimentary angles, supplementary angles, and the angles within triangles to solve real world and mathematical problems.	___ I can estimate more complicated areas.
				___ I can calculate perimeter and area of a square and rectangle.		___ I can calculate the area and circumference of a circle given the radius or diameter using both forms of pi.	___ I can estimate the length of the third side of a triangle by using Triangle Inequality.
				___ I can calculate the perimeter and area of a complex figure.			___ I can tell whether 3 numbers can be the lengths of the sides of a triangle.
				___ I can calculate the perimeter of a triangle.			___ I can use the Pythagorean Theorem to solve for the length of a side of a right triangle.
				___ I can draw parallel lines.			___ I can use Pythagorean Theorem to measure indirectly.

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				____ I can draw perpendicular lines.			____ I can identify points, lines, and planes.
				____ I can label the angles of a triangle.			____ I can use a protractor to measure an angle.
				____ I can identify central angles in a circle.			____ I can identify angles formed when 2 parallel lines intersect a third.
				____ I can classify a triangle by its angles.			____ I can identify line symmetry.
				____ I can classify a triangle by its sides.			____ I can classify triangles by their sides.
				____ I can identify diameter, radius, and chord of a circle.			____ I can identify quadrilaterals.
				____ I can label the circumference of a circle.			____ I can recognize congruent polygons.
				____ I can label the radius of a circle.			____ I can identify interior and exterior angles of a polygon.
				____ I can label the diameter of a circle.			____ I can compare side lengths and angles measures of a triangle.
				____ I can label the center of a circle.			____ I can find angle measures of an isosceles triangle.
				____ I can find the radius of a circle given its diameter.			____ I can identify angles.
				____ I can explain how to find the radius of a circle given its diameter.			____ I can find the measures of the angles of a polygon.

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							___ I can identify regular polygons.
							___ I can classify triangles by their angles.
							___ I can identify rotational symmetry.
							___ I can calculate the area of a parallelogram and trapezoid.
							___ I can use area and perimeter to solve real-life problems.
							___ I can determine if 2 figures are congruent.
							___ I can reflect a figure on a line.
							___ I can interpret the slope of a line.
							___ I can describe a rotation around a point.
							___ I can use properties of reflections to answer about real-life situations.
							___ I can translate a figure in a plane.
							___ I can rotate a figure on a coordinate plane.
							___ I can recognize similar figures.
							___ I can represent translations in a coordinate plane.

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							___ I can compare perimeter and areas of similar figures.
							___ I can find trigonometric ratios.
							___ I can use Pythagorean Theorem to calculate trigonometric ratios.
							___ I can use trigonometric ratios to solve right triangles.
							___ I can use trigonometric ratios to solve real-life problems.
							___ I can calculate circumference of a circle.
							___ I can calculate area of a circle.
							___ I can build and describe polyhedrons.
							___ I can identify and draw solids.
							___ I can calculate surface area of a prism and cylinder.
							___ I can use surface area to solve real-life problems.
							___ I can calculate the volume of a prism.
							___ I can use volume to solve real-life problems.
							___ I can calculate the volume of a cylinder.

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							___ I can use volume to solve real-life problems.
							___ I can calculate the volume of a pyramid and a cone.
							___ I can calculate complicated volume.
							___ I can calculate the volume of a sphere.
							___ I can use the volume of a sphere to solve real-life problems.
							___ I can explore ratios of similar figures.