

| Geometric Relationships | Apply concepts of volume of cylinders, cones and spheres to solve real-world and mathematical problems. <br> Use transformations to demonstrate congruence and similarity of geometric figures. <br> Use various tools to understand and apply geometric transformations to geometric figures. <br> Apply the Pythagorean Theorem and its converse to solve mathematical problems in two and three dimensions. <br> (CC.2.3.8.A.1) <br> (CC.2.3.8.A.2) <br> (CC.2.3.8.A.3) | counterclockwise, parallel lines, congruence, $\cong$, reading A' as "A prime", similarity, dilations, pre-image, image, rigid transformations, exterior angles, interior angles, alternate interior angles, angle-angle criterion, deductive reasoning, vertical angles, adjacent, supplementary, complementary, corresponding, scale factor, transversal, parallel <br> right triangle, hypotenuse, legs, PythagoreanTheorem, Pythagorean triple |
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| Data and distributions | Construct, analyze, and interpret bivariate data displayed in scatter plots. <br> Identify and use linear models to describe bivariate measurement data. <br> Use frequencies to analyze patterns of association seen in bivariate data. <br> (CC.2.4.8.B.1) <br> (CC.2.4.8.B.2) | cones, cylinders, spheres, radius, volume, height, Pi <br> Statistics and Probability <br> bivariate data, scatter plot, linear model, clustering, linear association, non-linear association, outliers, positive association, negative association, categorical data, two-way table, relative frequency |

