

# SAT Mathematics Level 2 Syllabus 2016-2017

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## Topics for the test

### Number and operations (10%–14% of the test)

☐ Operations, ratio and proportion, complex numbers, counting, elementary number theory, matrices, sequences, series, vectors

### Algebra and functions (48%–50% of the test)

☐ Expressions, equations, inequalities, representation and modeling, properties of functions (linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, periodic, piecewise, recursive, parametric)

### Geometry and measurement (38%–42% of the test)

Coordinate Lines, parabolas, circles, ellipses, hyperbolas, symmetry, transformations, polar coordinates (10%–14%)

Three-dimensional solids, surface area and volume (cylinders, cones, pyramids, spheres, prisms), coordinates in three dimensions (4%–6%)

Trigonometry right triangles, identities, radian measure, law of cosines, law of sines, equations, double angle formulas (12%–16%)

### Data analysis, statistics and probability (8%–12% )

☐ Mean, median, mode, range, interquartile range, standard deviation, graphs and plots, least squares regression (linear, quadratic, exponential), probability

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