MATHS 7-9

- käsitteet on jaoteltu yläkoulun kurssisisältöjen mukaan, numero otsikon edessä viittaa kurssin järjestyslukuun

7th grade	8th grade	9th grade
1 – NUMBERS AND OPERATIONS absolute value, accuracy, braces { }, brackets [ ], denominator, difference, digit, even number, fraction, fraction rules, improper fraction, inequality, integers, mixed number, natural numbers, negative number, nonnegative integers, number line, numerator, odd number, order of operations, parentheses ( ), positive number, product, quotient, rational numbers, real numbers, reciprocal, reduce a fraction, rounding a number, sum	**4 – POWERS AND POLYNOMIALS** square root, degree of a polynomial, monomial, binomial, trinomial, powers of powers, powers of ten, scientific notation, milliard vs billion, billion vs trillion, trillion vs quintillion, irrational numbers, imaginary numbers, associative operation, commutative operation	**8 – FUNCTIONS AND EQUATIONS** independent variable, dependent variable, relation, domain, range, function value, graph of a function, declining line, increasing line, parallel lines, gradient, vertical line, horizontal line, parabola, vertex, axis of symmetry, zero of a function, increasing function, decreasing function, hyperbola, two variable equations, system of equations, solve graphically, substitution method, elimination method
2 – GEOMETRY acute angle, acute triangle, angle, angle bisector, arc of a circle, area units, arm of an angle, axis of reflection/rotation/symmetry, base, bisector, center of rotation, centers of a triangle (circumcenter, incenter, centroid, orthocenter), central angle, chord, circumcircle, circumference, complementary angles, compute, congruence, coordinate plane, coordinates / ordered pair, diagonal of a polygon, diameter, equiangular/equilateral triangle, evaluate, exterior angle of a polygon, hexagon, isosceles triangle, line, line segment, origin, parallelogram, pentagon, perimeter, point of symmetry, polygon, quadrilateral, radius, ray, rectangle, rhombus, right angle, right triangle, rotation, scalene triangle, secant line, sector of a circle, segment of a circle, shift / translation / glide, square, straight angle, supplementary angles, surface area, tangent line, Thales's theorem, trapezoid, triangle, x-intercept, y-intercept	**6 – GEOMETRY** significant figures, Pythagorean theorem, scale, scale factor, similar, corresponding sides, corresponding angles, units of volume, cube, right rectangular prism (box)	**10 – TRIGONOMETRY AND SOLID GEOMETRY** altitude (of a solid), circular (cone, cylinder), cone, cone angle, cosine, cube (regular hexahedron), cylinder, degree, edge, face, height (of a solid), lateral surface area, measure of an angle, oblique, polyhedra, prism, pyramid, radian, right circular cone, sine, slant height, solid geometry, SOHCAHTOA, sphere, surface area, tangent, trigonometric functions, volume

7th grade	8th grade	9th grade
3 – ALGEBRA arithmetic sequence, base, check a solution, coefficient constant, cubed, divisibility, equation, exponent, expression, factor of an integer, factor tree, finite, greatest common factor, geometric sequence, infinite, least common multiple, like terms, order of operations (powers), polynomial, power, prime factorization, prime number, root, sequence, simplify, solution, solve, squared, term, variable, verify a solution	5 – EQUATIONS AND INEQUALITIES contradiction, directly proportional, false, identical equation, inversely proportional, proportion, quadratic equation, ratio, solution set, true statement	9 – STATISTICS bar graph, circle graph (pie chart), data, histogram, line graph, mean (arithmetic), median, mode, frequency, relative frequency, sample, table, universe
	7 – PERCENTAGES percent, percentage, percent as decimal, percentage point, reference value (basic value), interest, per mille (parts per thousand)	11 – PROBABILITIES AND REVISION classical probability, combination, complement of an event, conditional probability, event, multiplication rule, odds against / in favor, outcome, permutations, population, sample space, set, sure event, weighted average