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This page lists recommended resources for teaching algebraic topics at Key Stage 3/4. Huge thanks to all individuals and organisations who share teaching resources. Quick links: Forming Expressions | Function Machines | Simplifying Expressions | Expanding Single Brackets | Expanding Double Brackets | Expanding Cubics | Factorising (Single Brackets) | Rearranging Formulae | Substitution | Linear Sequences | Quadratic Sequences | Other Sequences | Linear Equations | Inequalities | Quadratic Inequalities | Linear Graphs | Quadratics | Trial & Improvement | Iteration | Simultaneous Equations | Algebraic Fractions | Functions | Graphing Functions | Graph Transformations | Algebraic Proof and Identities | Equation of Circle & Tangent | Gradient of a Curve | Area under a Graph | Revision In addition to the resources listed below, see my blog post 'Introducing Algebra' for more ideas. Forming Expressions One incorrect simplification - Median Don Steward Expanding Single Brackets [back to top] Expanding Double Brackets Factorising (Single Brackets) [back to top] Rearranging Formulae [back to top] Substitution [back to top] Linear Sequences [back to top] Quadratic Sequences [back to top] [back to top] Steps to Solving Equations - MAP Linear Equations [back to top] Linear and Graphical Inequalities [back to top] Introduction to Inequalities - projectmaths.ie [back to top] Linear Graphs Plotting Equations - gradient and intercept Parallel and perpendicular Mixed [back to top] Factorising Quadratics Practice from @DJUdall Quadratic discs - Colmanweb Trial and Improvement See my blog post on Trial and Improvement for ideas and resources If you find any broken links please email resourceaholic@gmail.com. Infinite Geometry covers all typical Geometry material, beginning with a review of important Algebra 1 concepts and going through transformations. There are over 85 topics in all, from multi-step equations to constructions. Suitable for any class with geometry content. Designed for all levels of learners, from remedial to advanced. Adding and subtracting square roots Line segments and their measures Segment Addition Postulate Angles and their measures Geometric diagrams and notation Parallel lines and transversals Points of the coordinate plane Graphing linear equations Proving triangles congruent Isosceles and equilateral triangles Triangle Inequality Theorem Inequalities in one triangle Area of triangles and quadrilaterals Proportional parts in triangles and parallel lines Multi-step Pythagorean Theorem problems Multi-step special right triangle problems Multi-step trig. problems Rhombuses and kites with right triangles Solid figures: identifying, volume, and area Naming arcs and central angles Measures of arcs and central angles Arc length and sector area Secant and tangent angles Using equations of circles Writing equations of circles Translations, rotations, and reflections Sample spaces and the Fundamental Counting Principle Probability of independent and dependent events, word problems Probability of independent and dependent events Probability of mutually exclusive events, word problems Probability of mutually exclusive events Permutations vs combinations Probability with permutations and combinations Missing Base or Height | Integers Rearrange the area of a triangle formula, make the unknown dimension the subject, substitute the values of the area and one dimension given as integers in the formula to determine the missing base or height. Missing Base or Height | Decimals Find the base or the height of the triangles, using the area and either of the dimensions presented as decimals in geometrical shapes and in word format. Apply $A = 1/2 * \text{base} * \text{height}$ formula to find the missing value. Suitable for grade 6 and grade 7. Missing Base or Height | Fractions The area and either the base or height measures are provided in fractions. Modify the formula by changing the subject to the missing dimension and calculate the unknown measure in these printable worksheets. Missing Base or Height | Unit Conversion Walk through this stack of pdf worksheets that requires 7th grade and 8th grade students to convert the units and then plug the values of the area and the height or base offered as integers and decimals to determine the unknown dimensions. Area of Triangles | Challenging Each printable worksheet here provides five challenging problems in word format, featuring equilateral, scalene and isosceles triangles. Apply relevant formulas, plug in the dimensions and compute the area. Area of an Equilateral Triangle Worksheets Finding out the area of an equilateral triangle is no hard row to hoe with this set of printable triangle worksheets comprising measures offered as integer and decimal numbers. Memorizing the formula $A = \sqrt{3}/4 * a^2$, where 'a' denotes the sides, will help you sail through the exercises effortlessly. (19 Worksheets) Area of an Isosceles Triangle Worksheets If practice in finding the area of an isosceles triangle is what you are looking for, then this is the place to be. Find the height of the triangle using the Pythagorean theorem. Plug in the integer, or decimal dimensions in the area of a triangle formula $A = 1/2 * b * h$ and solve for the area. (16 Worksheets) Area of a Scalene Triangle Worksheets Moving on to the scalene triangles, our area of a triangle worksheets provide high school students practice in calculating the area of scalene triangles by applying the Heron's formula $A = \sqrt{s(s-a)(s-b)(s-c)}$, where 's' is the semi perimeter. Assign the decimal and integer dimensions and find the area. (16 Worksheets) Here is a graphic preview for all of the Angles Worksheets. You can select different variables to customize these Angles Worksheets for your needs. The Angles Worksheets are randomly created and will never repeat so you have an endless supply of quality Angles Worksheets to use in the classroom or at home. We have classifying and naming angles, reading protractors and measuring angles, finding complementary, supplementary, vertical, alternate, corresponding angles and much more. Our Angles Worksheets are free to download, easy to use, and very flexible. These Angles Worksheets are a great resource for children in 3rd Grade, 4th Grade, 5th Grade, 6th Grade, 7th Grade, and 8th Grade. Click here for a Detailed Description of all the Angles Worksheets. Click the image to be taken to that Angles Worksheets. Classifying Angles Worksheets These Angles Worksheets are great for teaching the different classification of angles. These angles worksheets will produce 20 problems for the student to identify whether the angle is acute, obtuse, right, or straight. Naming Angles Worksheets These Angles Worksheets are great for teaching the correct nomenclature to identify angles and sides of angles. They will be asked to label the vertex and sides of angles and name all angles with a given vertex. These angles worksheets will produce 12 problems. Angle Pair Relationships Worksheets These Angles Worksheets are great for identifying angle pair relationships. The student will identify adjacent, complementary, linear pair, or vertical angles. These worksheets will produce 8 problems per page. Producing Protractor Images Worksheets These Angles Worksheets are great for handouts or overhead projector where a protractor image is needed. You may also print this protractor images on a piece of acetate to make a large size protractor for use in the classroom. These Angles Worksheets will produce one, two, four, or six images of a protractor per page. Reading a Protractor Worksheets These Angles Worksheets are perfect for practicing reading and using a protractor to measure different angles. These Angles Worksheets will produce two problems per page. Measuring Angles Worksheets These Angles Worksheets are great for practicing measuring angles with a protractor. These worksheets will produce 8 problems per page. Drawing Angles Worksheets These Angles Worksheets are great for practicing drawing angles with a protractor. These worksheets will produce 8 problems per page. Identify if a Point is Interior or Exterior to an Angle Worksheets These Angles Worksheets are great for practicing identifying if a point is interior, exterior, or on the angle. These worksheets will produce 9 problems per page. Angle Addition Postulate Worksheets These Angles Worksheets are great for practicing the angle addition postulate. These angle worksheets will produce 9 problems per page. Find Complementary Angles Worksheets These Angles Worksheets are great for practicing finding missing angles from complementary angle pairs. You may select whole numbers or decimal numbers for the problems and configure the worksheet for 9, 12 or 15 problems. Find Supplementary Angles Worksheets These Angles Worksheets are great for practicing finding missing angles from supplementary angle pairs. You may select whole numbers or decimal numbers for the problems and configure the worksheet for 6, 8 or 10 problems. Find Vertical Angles Worksheets These Angles Worksheets are great for practicing finding missing vertical angles from vertical angle pairs. You may select whole numbers or decimal numbers for the problems and configure the worksheet for 6 or 8 problems. Find Alternate Angles Worksheets These Angles Worksheets are great for practicing finding missing alternate angles from various graphs. You may select whole numbers or decimal numbers for the 6 problems that are generated per worksheet. Find Corresponding Angles Worksheets These Angles Worksheets are great for practicing finding missing corresponding angles from various graphs. You may select whole numbers or decimal numbers for the 6 problems that are generated per worksheet. Find All Angles Worksheets These Angles Worksheets are great for practicing finding missing angles on a graph using complementary, supplementary, vertical, alternate, and corresponding angle relationships. You may select whole numbers or decimal numbers for the 6 problems that are generated per worksheet. Arcs and Central Angles Worksheets These Angles Worksheets will produce problems for identifying and working with inscribed angles and arcs. You may select which figures to name, the number of points on the circle's perimeter, as well as the types of figures inscribed in the circles. Inscribed Angles Angles Worksheets These Angles Worksheets will produce problems for identifying and working with inscribed angles and arcs. You may select which figures to name, as well as the types of figures inscribed in the circles. Click here for More Geometry Worksheets

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