

Shormann Math: Instructions for NCAA Core Course Worksheets

The NCAA requires 3 Core Course Worksheets for math. They must be Algebra 1 and higher. Shormann Math integrates geometry with Algebra 1 and Algebra 2. Upon completion of Shormann Algebra 1 & 2, one full credit of Geometry is earned. However, if your student will take Shormann Precalculus we recommend only making core course worksheets for Algebra 1, 2, and Precalculus. Either way, [you must list Geometry on the NCAA transcript](#) as instructed here: [Shormann Math NCAA Transcript Instructions](#).

If you do not take Precalculus, then you must make a core course worksheet for Geometry. Use the information in the Geometry column below for the core course worksheet.

We have never had a core course worksheet denied when these instructions were followed. If you have any questions, please contact us at support@diveintomath.com or send a text to 936-372-6299 (include your full name & email).

Form Field					
Course Name (Match the transcript)	Algebra 1	Algebra 2	Precalculus with Trigonometry	Calculus 1	Geometry
Grade/ Year Taken	9th/202_	10th/202_	11th/202_	12th/202_	11th/202_
Subject Area	Math	Math	Math	Math	Math
The course is administered in accordance with...	Yes	Yes	Yes	Yes	Yes
The curriculum for the course meets high school graduation requirements...	Yes	Yes	Yes	Yes	Yes
The curriculum for the course meets college preparatory...	Yes	Yes	Yes	Yes	Yes
Teacher of Record	Parent	Parent	Parent	Parent	Parent
Other Teacher	Blank	Blank	Blank	Blank	Blank
Grade Based On	Homework 30%, Quizzes 30%, Exams 40%	Homework 30%, Quizzes 30%, Exams 40%	Homework 30%, Quizzes 30%, Exams 40%	Homework 30%, Quizzes 30%, Exams 40%	Homework 30%, Quizzes 30%, Exams 40%
Prerequisite(s)	Pre-Algebra	Algebra 1	Algebra 2	Precalculus	Algebra 1
Text(s) Used	Shormann Algebra 1 ISBN: 978-0-989010-4-6	Shormann Algebra 2 ISBN: 978-0-989010-5-3	Shormann Precalculus ISBN: 978-0-989010-6-0	Shormann Calculus ISBN: 978-0-989010-7-7	Shormann Algebra 1 with Integrated Geometry ISBN: 978-0-989010-4-6 & Shormann Algebra 2 with Integrated Geometry ISBN: 978-0-989010-5-3
Curriculum Provider	Leave this field blank	Leave this field blank	Leave this field blank	Leave this field blank	Leave this field blank
Course Description	Shormann Algebra 1 teaches	While covering all the topics in a	This course combines the study of	The first quarter of the course	This course includes all topics in a

	<p>all the concepts required for a 21st Century Algebra 1 course, including simplifying algebraic expressions, solving equations (linear and quadratic) and linear systems. Other topics include measurement, computer math, technology applications, statistics and a gentle introduction to basic calculus. Major topics include evaluation of algebraic equations, thorough coverage of exponents, polynomials, solving and graphing linear equations, complex fractions, solving systems of equations, radicals, word problems, solving and graphing quadratic equations, solving systems of equations, and solving equations by factoring.</p>	<p>standard Algebra 2 course such as simplifying algebraic expressions, solving equations, solving linear and nonlinear systems of equations, this 21st Century course also includes computer mathematics, technology applications, statistics, calculus basics, and real-world word problems in science, engineering, finance, sports, and more. Major topics include the solving and graphing of linear and quadratic equations, factoring, a variety of types of word problems, solving quadratic equations by completing the square, solving simultaneous equations with fractions and decimals, complex roots of quadratic equations, solving systems of nonlinear equations, graphing and solving a system of inequalities, exponential equations, probability and statistics topics.</p>	<p>trigonometry, elementary functions, analytic geometry, and math analysis topics as preparation for calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.</p>	<p>provides a solid precalculus review, introduces fundamental calculus topics like limits, derivatives and integrals, and reviews many topics found on the ACT and SAT. The remainder of the course dives deep into calculus. Since calculus is closely connected to the study of motion, students will solve hundreds of problems that apply calculus to physics and engineering. Students are also introduced to differential equations and limit applications to infinite series. Students learn to use technology such as spreadsheets and graphing calculators to solve problems. When finished, students are well prepared for college-level Calculus II and have learned all the topics on the AP Calculus AB exam as well as the CLEP Calculus exam.</p>	<p>high school geometry course, including perspective, space, and dimension associated with practical and axiomatic geometry. Standard geometry concepts include proof, logic, triangle similarity, perimeter/area/volume, and right triangle geometry (trigonometry). Analytical geometry topics such as functions and their symbolic, graphic, numeric and verbal forms are also covered. Students learn how to apply and calculate measurements of lengths, heights, circumference, areas, and volumes. Geometry introduces trigonometry and allows students to work with transformations. Students will use logic to create proofs and constructions and will work with key geometry theorems and proofs.</p>
Course Content	Scope & Sequence	Scope & Sequence	Table of Contents	Scope & Sequence	Scope & Sequence
Types of Assessments	Daily Practice Sets, Weekly Quizzes, and Quarterly Exams	Daily Practice Sets, Weekly Quizzes, and Quarterly Exams	Daily Practice Sets, Weekly Quizzes, and Quarterly Exams	Daily Practice Sets, Weekly Quizzes, and Quarterly Exams	Daily Practice Sets, Weekly Quizzes, and Quarterly Exams
Assessments Designed By	Included with Shormann Algebra 1	Included with Shormann Algebra 2	Included with Shormann Precalculus	Included with Shormann Calculus	Included in the Shormann Math Curriculum
Assessments Graded By	Parent	Parent	Parent	Parent	Parent
Grade/Credit Achieved	Letter Grade 1 Credit: Algebra 1	Letter Grade 1 Credit: Algebra 2	Letter Grade 1 Credit: Precalculus with Trigonometry	Letter Grade 1 Credit: Calculus	Put the Letter Grade Here 1 Credit: Geometry