

Resources for Grade Ten

Mathematics



Mathematics/Science Section
NC Department of Public Instruction
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Resources for Grade Ten Mathematics is a set of problems assembled to reflect the criteria of the mathematics portion of the ***North Carolina High School Comprehensive Test***. The problems are not necessarily suited to timed situations but rather are intended for classroom use by teachers to review high school mathematics and build upon concepts and skills developed in the middle school years. Teachers can use the problems as class openers, problems-of-the-week, extra credit, periodic review, homework, and items on tests and quizzes.

The problems are in a blackline master format, generally four items to a page, and in 18- or 24-point type for easy use as overhead transparencies. They are organized according to the Comprehensive Test criteria. This document is also available in Acrobat (.pdf) format on the NCDPI Mathematics web page (www.learnnc.org/dpi/instserv.nsf/Category7).

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<i>Goal 1:</i> This strand will focus on performing operations, solving problems, and representing mathematical relationships using real numbers.	pp. 1-30
<i>Goal 2:</i> This strand will focus on describing, defining, and using the properties of plane and solid figures and solving related problems and using methods and systems of measurement, both direct and indirect, customary and metric, and solving related problems.	pp. 31-86
<i>Goal 3:</i> This strand will focus on using the language of algebra to express numerical, geometric and problem-based relationships and solve related problems and modeling, graphing and exploring data sets and functions including those involving linear, quadratic and exponential relations and solve related problems.	pp. 87-156
<i>Goal 4:</i> This strand will focus on using statistical methods, analysis and relationships to collect, organize and describe data and communicate the results and determining the probability of simple and compound events and solve related problems.	pp. 157-184
<i>Answer Key</i> (Please check the answers before sharing with students.)	pp. 185-215

After you have had a chance to review and use these materials, please take a moment to let us know if *Resources for Grade Ten Mathematics* has been useful to you. Your evaluation is important for the Eisenhower project that supported the development of these materials. Please respond to:

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 Mathematics and Science Section
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Indicate the extent to which you agree with statements 1-5.

	Strongly Disagree				Strongly Agree
The materials will be helpful in preparing students for the NC High School Comprehensive Test	1	2	3	4	5
I plan to use these materials with my students in (course) _____ .	1	2	3	4	5
The materials are appropriate for high school mathematics.	1	2	3	4	5
The format of the materials encourages their use.	1	2	3	4	5

How do you plan to use these materials in your classroom?

Additional comments: