



## Pythagorean Theorem

### Lesson Synopsis:

In this lesson, students model the Pythagorean Theorem concretely using area models while making connections to algebra. In addition, students explore Pythagorean triples by constructing triangles and explore the relationships between similar triangles, similar triangles, and the Pythagorean Theorem. Students apply the Pythagorean Theorem and Pythagorean triples in real-world contexts to solve problems.

### TEKS:

- |        |   |
|--------|---|
| G.2    | Geometric structure. The student analyzes geometric relationships in order to make and verify conjectures.  |
| G.201  | Make conjectures about angles, lines, polygons, circles, and three-dimensional figures and determine the validity of the conjectures, choosing from a variety of approaches such as concrete, transformational, or axiomatic. |
| G.3    | Geometric patterns. The student uses a variety of representations to describe geometric relationships and solve problems.   |
| G.301  | Use concrete and geometric patterns to make generalizations about geometric properties, including properties of polygons, ratios in similar figures and solids, and angle relationships in polygons and circles.              |
| G.301  | Identify and apply patterns from right triangles to solve meaningful problems, including special right triangles (45-45-90 and 30-60-90) and triangles whose sides are Pythagorean triples.                                   |
| G.4    | Measurement and the geometry of size. The student uses tools to determine measurements of geometric figures and extends measurement concepts to find perimeter, area, and volume in problem situations.                       |
| G.401  | Sketch, material, and use the Pythagorean Theorem.  |
| G.11   | Similarity and the geometry of shape. The student applies the concepts of similarity to justify properties of figures and solve problems.   |
| G.1101 | Recognize, apply, and justify triangle similarity relationships, such as right triangle ratios, trigonometric ratios, and Pythagorean triples using a variety of methods.   |

### Getting Ready for Instruction

#### Performance Indicator(s):

- Analyze patterns to derive and make conjectures about the Pythagorean Theorem and Pythagorean Triples. Extend both to identify right triangles and find missing side lengths in right triangles. (G.201, G.3A, G.301, G.302, G.303, G.304)
- **GLEC** LPO: 10, 11, 20, 21, 311, 4F, 5G

#### Key Understandings and Guiding Questions:

- The Pythagorean Theorem, its converse, and Pythagorean Triples can be used to identify right triangles and calculate the measurement of their sides.
  - How is similarity used to generate Pythagorean Triples?
  - How can the converse of the Pythagorean Theorem be used to classify triangles by angles?
  - How can Pythagorean triples be used to solve right triangles?

#### Vocabulary of Instruction:

- |                       |                         |                       |
|-----------------------|-------------------------|-----------------------|
| • Pythagorean Theorem | • leg of right triangle | • Pythagorean triples |
| • right triangle      | • hypotenuse            |                       |

#### Materials:

- |                       |                   |              |
|-----------------------|-------------------|--------------|
| • transparency marker | • colored pencils | • grid paper |
| • dot grid paper      | • compass         |              |

# Geometry Hs Mathematics Unit 10 Lesson 1 Problem Solve

**RC Schank**



## **Geometry Hs Mathematics Unit 10 Lesson 1 Problem Solve:**

**Resources in Education** ,2001      Research in Education ,1973      **Everyday Mathematics** Max Bell,2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific      *Index to Educational Audio Tapes* National Information Center for Educational Media,1974      **Teacher's Edition for Scoring High on the Comprehensive Tests of Basic Skills** ,1991 This program for kindergarten through grade 8 includes practice in reading and mathematics familiarizes students with test formats and directions and teaches test taking strategies      **ENC Focus** ,1994      **Innovative Curriculum Materials** ,1999      **Index to Educational Audio Tapes** ,1974      *Research in Education* ,1969      **Bringing the Common Core Math Standards to Life** Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts      **Circular - Office of Education** United States. Office of Education,1930      **Integrating Technology in the Classroom** ,1999      **Masterbook for CTET & STETs Paper 1 for Class 1 - 5 Teachers with Previous Year Solved Papers & 5 Model Tests 2nd English Edition | Child, Development & Pedagogy, EVS, Mathematics & Languages** , The updated 2nd English edition of Masterbook for CTET Child Development and Pedagogy Mathematics Environmental studies English Language 1 and Hindi Language 2 The book is based on Latest Pattern as directed in NEP 2020 NCF 2023 This new edition is powered with 2021 to 2023 Solved Papers Some additional papers are provided through a link as well Theory is focused on Conceptual Understanding Application Problem solving Reasoning and Critical Thinking For each subject Pedagogic Content Knowledge is perfectly designed to improve understanding of teaching the subject The part of the book in which the summary of NCERT is required has also been included Each subject theory of this book is followed by more than 500 practice questions with answers and detailed explanations so that learners can check their level for the betterment A total of 3300 Practice Questions with Detailed Explanations are provided This book ends with

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Eventually, you will certainly discover a other experience and triumph by spending more cash. nevertheless when? do you tolerate that you require to get those every needs afterward having significantly cash? Why dont you attempt to get something basic in the beginning? Thats something that will lead you to comprehend even more on the order of the globe, experience, some places, in imitation of history, amusement, and a lot more?

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