

Title: Trigonometry – Angles**Learning Objectives:**

By the end of the lesson:

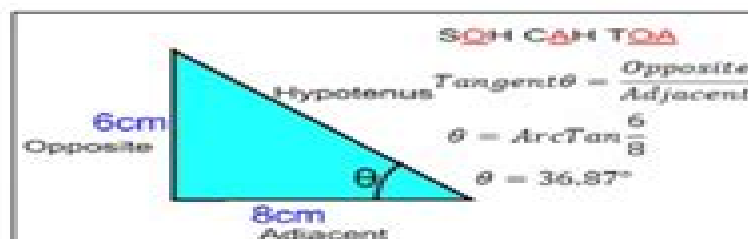
- All students should be able to use the Sine and Cosine function to calculate angles in right-angled triangles.
- Most students should be able to use the Sine, Cosine and Tangent function to calculate angles in right angled triangles.
- Some students should be able to calculate an angle in an isosceles triangle using Trigonometrical functions.

Keywords: Trigonometry, Opposite, Adjacent, Hypotenuse, ArcTan, ArcCos, ArcSin**Learning Activities**Starter/Introduction

Students develop their problem solving skills by using Pythagoras' theorem and trigonometric functions to calculate the lengths in right-angled triangles. It is important for the class to sketch their diagrams and label the edges in respect to the angle, i.e., Opposite, Adjacent and Hypotenuse side.

Development

To calculate an angle in a triangle it is necessary to first identify which trigonometric function can be used. Use the angle to label the sides – the opposite side is opposite the angle, the adjacent side runs adjacent to it and the hypotenuse is opposite the right angle. In the base of the diagram to the right both the Opposite and Adjacent are known to therefore the Tangent function is necessary since Sine and Cosine require the hypotenuse side.



Explain that ArcTan, ArcSin and ArcCos are the opposite functions to Tan, Sin, and Cos respectively. In a similar way to that plus is the opposite function to subtract and divide is the opposite to multiply. Therefore, in the example above, by taking the ArcTan of both sides the Tan function on the left hand side is cancelled. When demonstrating this to the class it is important to provide a clear writing frame since multiple lines of working are needed.

Continue to work through the remaining examples on the second slide for consolidation. The interactive Microsoft Excel file can be used to provide examples for the students to work from on mini-whiteboards in order to assess their progress.

When ready students could progress through the problems on the third slide independently. Feedback solutions throughout to maintain pace and challenge.

Plenary

The plenary is intended to both consolidate and extend the learning by having the class consider an isosceles triangle rather than one that is right-angled. It may be necessary to guide the students to create a right angled triangle by bisecting θ and having the vertical distance. Have the class attempt this on mini-whiteboards for assessment and feedback.

Differentiation

More able:

- Students could consider right angled triangles within 3D grids.

Less Able

- Students may benefit from using only the sine and cosine function one lesson and move on to all three functions in the next.

Resources:

Mini-Whiteboards

Calculators

Interactive Microsoft Excel file.

YouTube Videos

Common Core Trig Lesson Plans

Cheryl Rose Tobey, Carolyn B. Arline



Common Core Trig Lesson Plans:

Architectural Approach to Level Design Christopher W. Totten, 2019-04-25 Written by a game developer and professor trained in architecture An Architectural Approach to Level Design is one of the first books to integrate architectural and spatial design theory with the field of level design It explores the principles of level design through the context and history of architecture Now in its second edition An Architectural Approach to Level Design presents architectural techniques and theories for you to use in your own work The author connects architecture and level design in different ways that address the practical elements of how designers construct space and the experiential elements of how and why humans interact with that space It also addresses industry issues like how to build interesting tutorial levels and how to use computer generated level design systems without losing the player focused design of handmade levels Throughout the text you will learn skills for spatial layout evoking emotion through gamespaces and creating better levels through architectural theory FEATURES Presents case studies that offer insight on modern level design practices methods and tools Presents perspectives from industry designers independent game developers scientists psychologists and academics Explores how historical structures can teach us about good level design Shows how to use space to guide or elicit emotion from players Includes chapter exercises that encourage you to use principles from the chapter in digital prototypes playtesting sessions paper mock ups and design journals Bringing together topics in game design and architecture this book helps you create better spaces for your games Software independent the book discusses tools and techniques that you can use in crafting your interactive worlds

Common Core Standards for High School Mathematics Amitra Schwols, Kathleen Dempsey, 2012-11-14 Smart implementation of the Common Core State Standards requires both an overall understanding of the standards and a grasp of their implications for planning teaching and learning This Quick Start Guide provides a succinct all in one look at The structure terminology and emphases of the Common Core mathematics standards at the high school level including the areas that represent the most significant changes to business as usual The meaning of the individual content standards addressed by domain and cluster within all five conceptual categories Number and Quantity Algebra Functions Geometry and Statistics and Probability How the content standards practice standards and designated modeling standards connect across domains categories grade bands and traditional course boundaries to help students develop both deep conceptual understanding and functional real world application skills Here mathematics teachers and teacher leaders will find information they need to begin adapting their courses and practices to ensure all students master the new and challenging material the standards present and graduate ready for college or career A practical lesson planning process to use with the Common Core based on Classroom Instruction That Works 2nd Ed is included along with three sample lessons LEARN THE ESSENTIALS OF THE COMMON CORE The grade level and subject specific Quick Start Guides in the Understanding the Common Core Standards series edited by John Kendall are designed to help school leaders and school staffs turn Common Core standards into

coherent content rich curriculum and effective classroom level lessons

Mathematics, the Common Core, and RTI

Dolores Burton, John Kappenberg, 2013-09-12 Don't let the revolution in math education pass your teachers by Individually the Common Core and RTI are formidable enough Together they create a perfect storm of challenges with most teachers left wondering where to turn first Finally here's a resource that distills the central elements of the Common Core and RTI into a single manageable instructional strategy for serving all students It provides Real world scenarios Classroom ready work samples Content area applications Recommended online resources Guidance on special needs students behavioral issues ELLs and parent involvement

Teaching to Exceed the English Language Arts Common Core State Standards

Richard Beach, Allen Webb, Amanda Haertling Thein, 2015-12-07 Timely thoughtful and comprehensive this text directly supports pre service and in service teachers in developing curriculum and instruction that both addresses and exceeds the requirements of the Common Core State Standards Adopting a critical inquiry approach it demonstrates how the Standards highest and best intentions for student success can be implemented from a critical culturally relevant perspective firmly grounded in current literacy learning theory and research It provides specific examples of teachers using the critical inquiry curriculum framework of identifying problems and issues adopting alternative perspectives and entertaining change in their classrooms to illustrate how the Standards can not only be addressed but also surpassed through engaging instruction The Second Edition provides new material on adopting a critical inquiry approach to enhance student engagement and critical thinking planning instruction to effectively implement the CCSS in the classroom fostering critical response to literary and informational texts using YA literature and literature by authors of color integrating drama activities into literature and speaking listening instruction teaching informational explanatory argumentative and narrative writing working with ELL students to address the language Standards using digital tools and apps to respond to and create digital texts employing formative assessment to provide supportive feedback preparing students for the PARCC and Smarter Balanced assessments using the book's wiki site <http://englishccss.pbworks.com> for further resources

Bringing the Common Core Math Standards to Life

Yvelyne Germain-McCarthy, Ivan Gill, 2014-11-20 Provides a clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Offers real examples and detailed analyses of how exemplary teachers are using engaging strategies across the curriculum Includes practical ready to use tools you can take back to your classroom

The Five Practices in Practice [High School] Margaret (Peg) Smith, Michael D. Steele, Miriam Gamoran Sherin, 2020-02-26 This book makes the five practices accessible for high school mathematics teachers Teachers will see themselves and their classrooms throughout the book High school mathematics departments and teams can use this book as a framework for engaging professional collaboration I am particularly excited that this book situates the five practices as ambitious and equitable practices Robert Q Berry III NCTM President 2018-2020 Samuel Braley Gray Professor of Mathematics Education University of Virginia Take a deeper dive into understanding the five practices anticipating

monitoring selecting sequencing and connecting for facilitating productive mathematical conversations in your high school classrooms and learn to apply them with confidence This follow up to the modern classic 5 Practices for Orchestrating Productive Mathematics Discussions shows the five practices in action in high school classrooms and empowers teachers to be prepared for and overcome the challenges common to orchestrating math discussions The chapters unpack the five practices and guide teachers to a deeper understanding of how to use each practice effectively in an inquiry oriented classroom This book will help you launch meaningful mathematical discussion through Key questions to set learning goals identify high level tasks anticipate student responses and develop targeted assessing and advancing questions that jumpstart productive discussion before class begins Video excerpts from real high school classrooms that vividly illustrate the five practices in action and include built in opportunities for you to consider effective ways to monitor students ideas and successful approaches for selecting sequencing and connecting students ideas during instruction Pause and Consider prompts that help you reflect on an issue and in some cases draw on your own classroom experience prior to reading more about it Linking To Your Own Instruction sections help you implement the five practices with confidence in your own instruction The book and companion website provide an array of resources including planning templates sample lesson plans completed monitoring tools and mathematical tasks Enhance your fluency in the five practices to bring powerful discussions of mathematical concepts to life in your classroom

The Common Core Mathematics Companion: The Standards Decoded, High School Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2017-09-12 Your User's Guide to the Mathematics Standards When it comes to mathematics standards aligned is achievement aligned In the short time since The Common Core Mathematics Companions for grades K 2 3 5 and 6 8 burst on the scene they have been lauded as the best resources for making critical mathematics ideas easy to teach With this brand new volume high school mathematics success is at your fingertips Page by page the authors lay out the pieces of an in depth explanation including The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number quantity algebra functions geometry and statistics and probability building from the 8th grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning The Common Core Mathematics Companion The Standards Decoded High School has what every high school teacher needs to provide students with the foundation for the concepts and skills they will be expected to know Common Core Mathematics in a PLC at Work TM, High School Timothy D. Kanold, 2012-05-09 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics for high school Discover what students should learn

and how they should learn it Comprehensive research affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency

Teaching Mathematics in Grades 6 - 12 Randall E. Groth, 2012-08-10 A journey into the vibrant and intriguing world of mathematics education Teaching Mathematics in Grades 6 12 explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students mathematical thinking and then connecting this research to practices that enhance students understanding of the material The chapters in Part I introduce secondary teachers to the field of mathematics education with cross cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6 12 classrooms and how students thinking may develop in response to different teaching strategies Teaching Secondary Mathematics David Rock, Douglas K. Brumbaugh, Thomas J. P. Brady, 2024-02-15 Solidly grounded in up to date research theory and technology Teaching Secondary Mathematics is a practical student friendly and popular text for secondary mathematics methods courses It provides clear and useful approaches for mathematics teachers and shows how concepts typically found in a secondary mathematics curriculum can be taught in a positive and encouraging way The thoroughly revised fifth edition combines this pragmatic approach with truly innovative and integrated technology content throughout Synthesized content between the book and a comprehensive Instructor and Student Resource website offers expanded discussion of chapter topics additional examples and technological tips such as using and assessing artificial intelligence Each chapter features tried and tested pedagogical techniques problem solving challenges discussion points activities mathematical challenges and student life based applications that will encourage students to think and do New to the fifth edition A fully revised chapter on technological advancements in the teaching of mathematics including the use of artificial intelligence A new chapter on equity shame and anxiety in the mathematics classroom Connections to both the updated National Council of Teachers of Mathematics NCTM Focal Points and Standards Problem solving challenges and sticky questions featured in each chapter to encourage students to think through everyday issues and possible solutions A fresh interior design to better highlight pedagogical elements and key features A completely updated Instructor and Student Resource site with chapter by chapter video lessons teacher tools problem solving Q As exercises and helpful links and resources **Indigenous STEM Education** Pauline W. U. Chinn, Sharon Nelson-Barber, 2023-07-25 This book builds upon the range of Indigenous theory and research found in Volume I and applies these learnings to interventions in schools communities teacher education and professional development It is part of a two volume set addresses a growing recognition that interdisciplinary cross cultural

and cross hybrid learning is needed to foster scientific and cultural understandings and move STEM learning toward more just and sustainable futures for all learners Authors working in Eurocentric settings of schools and colleges whether in the continental or island United States Canada Thailand Taiwan or Chuuk utilize storytelling place language and experiential learning to engage students in meaningful highly contextualized study that honors ancestral knowledge and practices They recognize that their disciplines have been structured and colonized by Eurocentric American frameworks that lack storied ethical contexts developed through living sustainably in particular places Recognizing that students seeking to enter STEM majors and careers now must be knowledgeable in multiple ways authors describe innovative ways to immerse precollege learners as well as developing and practicing teachers in settings that intersect culture place heritage language and praxis that enable Indigenous and local knowledge to become central to learning Twenty first century technologies of distance learning digital story telling and mapping technologies now enable formerly marginalized minoritized groups to share their worldviews and systems of knowledge

Mathematics and Multi-Ethnic Students Yvelyne

Germain-McCarthy,2017-05-25 Mathematics and Multi Ethnic Students provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections Mathematics and Multi Ethnic Students translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students

Teach Like a Human Miriam Hirsch,2020-10-15 Teach Like a Human

Essays for Parents and Teachers is a collection of essays focused on educating children to care about themselves their communities and the world we are privileged to share Written for parents and teachers the book highlights the importance of listening caring communicating discerning and managing relationships effectively The author draws on principles from organizational theory curriculum study and arts education to encourage mindful reflection about educational practices and policies in pursuit of education for life Standards based teaching strategies with its culture of testing will never solve the problem of teaching all children according to their needs Physical social and emotional health are each important aspects of human development and children need strong relationships positive role models good friends and high expectations from

people who care about them It truly all matters Peppered with humor metaphor and narrative this book illuminates how educators both parents and teachers can galvanize experiences to deepen character insight empathy and joy in the people and things around us To teach like a human means to teach with consciousness of what it means to be human by focusing on qualitative aspects of life with sensitivity and strategy

Common Core Mathematics, A Story of Functions: Geometry, Module 2 Common Core, 2015-01-20 Common Core Mathematics A Story of Functions Geometry Module 2 Similarity Proof and Trigonometry Created by teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America s K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Similarity Proof and Trigonometry

Social Justice, the Common Core, and Closing the Instructional Gap Janet C. Richards, Kristien Zenkov, 2015-10-01 There is little doubt that the Common Core State Standards CCSS are a controversial entity They are provocative for the way in which they have been developed for the ways they are being implemented and evaluated for their content and for their failure to explicitly consider the needs interests and histories of diverse populations While the CCSS continue to be problematized by critics around the country including the editors of this volume it is evident our nation is moving toward some would argue we have arrived at a national set of standards and or a national curriculum This text will be an important volume for multiple audiences in large part because it will bring together critical perspectives on the CCSS and the notion of national standards curricula It will simultaneously provide a social justice orientation as a way to interpret the CCSS and respond to their limits while presenting practical examples of social justice oriented CCSS focused curricula that empower diverse learners and their teachers Social Justice the Common Core and Closing the Instructional Gap will consist of chapters by classroom teachers and university scholars who portray honest engaging first person accounts of their successes and challenges connecting a social justice pedagogical orientation to the Common Core State Standards These authors candidly and passionately share the challenges of navigating between a social justice curriculum and high stakes standards and test driven environments They highlight their accomplishments that include effectively supporting students to

consider social injustices and devise plans to work toward a more equitable world Eco-Mathematics Education Nataly Chesky, Jack Milgram, 2021-10-18 Eco Mathematics Education strives to show how everyone can experience the embedded connection between mathematics and the natural world The authors sincere hope is that by doing so we can radically change the way we come to understand mathematics as well as humanity s place in the ecosystem The book hopes to accomplish this by providing in depth lesson plans and resources for educators and anyone interested in teaching and learning mathematics through an ecological aesthetic perspective All lessons are based on the inquiry method of teaching aligned to standards incorporate art projects inspired by famous artists and utilize recycled and or natural materials as much as possible

Make: Math Teacher's Supplement Joan Horvath, Rich Cameron, 2024-07-26 Make Math Teacher s Supplement is the essential guide for teachers parents and other educators wanting to supplement their curriculum with Joan Horvath and Rich Cameron s Make Geometry Make Trigonometry and Make Calculus books This book is a companion to the three math books and does not duplicate the content in them Drawing on the authors experience guiding both students and teachers it covers The philosophy behind the Make math book series including the key inclusion of universal design principles to make the material accessible to those who learn differently A list of topics projects and needed maker skills tied to the math book chapters Key learning objectives and associated assessment ideas A practical primer on 3D printing in an educational environment Helpful tips to manage student 3D printed workflow Five specific examples of ways to use content from the math books including studying geometry with castles and using LEGO bricks to demonstrate calculus concepts Packed with tips and links to online resources Make Math Teacher s Supplement will let you see how to build math intuition to create a solid base for your learner s future *Teaching and Learning Discrete Mathematics Worldwide: Curriculum and Research*

Eric W. Hart, James Sandefur, 2017-12-09 This book discusses examples of discrete mathematics in school curricula including in the areas of graph theory recursion and discrete dynamical systems combinatorics logic game theory and the mathematics of fairness In addition it describes current discrete mathematics curriculum initiatives in several countries and presents ongoing research especially in the areas of combinatorial reasoning and the affective dimension of learning discrete mathematics Discrete mathematics is the math of our time So declared the immediate past president of the National Council of Teachers of Mathematics John Dossey in 1991 Nearly 30 years later that statement is still true although the news has not yet fully reached school mathematics curricula Nevertheless much valuable work has been done and continues to be done This volume reports on some of that work It provides a glimpse of the state of the art in learning and teaching discrete mathematics around the world and it makes the case once again that discrete mathematics is indeed mathematics for our time even more so today in our digital age and it should be included in the core curricula of all countries for all students

Uncovering Student Thinking About Mathematics in the Common Core, High School Cheryl Rose Tobey, Carolyn B. Arline, 2014-02-20 Take the guesswork out of high school math instruction Quickly and reliably uncover common math

misconceptions in Grades 9-12 with these convenient and easy to implement diagnostic tools. Bestselling authors Cheryl Rose Tobey and Carolyn B. Arline provide 25 new assessment probes that pinpoint subconcepts within the Common Core State Standards to promote deep learning and expert math instruction all while learning is underway. Completely aligned, these grade-specific probes eliminate the guesswork and will help you systematically address conceptual and procedural mistakes. Pinpoint where students are struggling. Plan targeted instruction in algebra, functions, logarithms, geometry, trigonometric ratios, statistics, and probability and more.

Adaptable Teaching Jonathan Ryan Davis, Maureen Connolly, 2022-04-01. This book is designed for all K-12 educators and teacher preparation faculty. Reading this book is like being in the room with 30 teacher mentors from different grade levels and school settings who are sharing strategies for 1. building and maintaining a positive classroom climate, 2. planning, 3. instruction, and 4. professional development. Discover step-by-step breakdowns of how to implement each strategy as well as professional reflections from contributors representing two different grade levels and a range of suburban and urban settings from all over the globe. Education students and novice teachers will learn from the in-depth descriptions of how to implement each strategy. Veteran teachers will be inspired by contributing teachers' professional reflection regarding why and how they utilize each strategy. Readers in ALL school contexts will benefit from narrative descriptions of each strategy in action which bring to life the ways that the strategies have made an impact on student learning and teacher development. The adaptations modeled throughout the book based on students and schools' assets and needs help readers to think about how to make each strategy a good fit for their unique classroom. If you are looking for practical ideas from the field, look no further; this is a book designed to build your teaching toolbox with strategies that you will use for years to come.

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