

SUGGESTED USE #1

Introduce and review math topics.

Surface Area & Nets

AREA

A measurement of the number of unit squares that cover a flat surface or shape.

SURFACE AREA

A measurement of the sum of all the faces of a solid geometric figure.

NET

The figure (flat surface) that can be folded to form a surface (solid figure) or "foldable" model of a solid geometric figure.

PLANE FIGURE

A 2-dimensional geometric figure that is square or circle.

SOLID FIGURE

A 3-dimensional geometric figure that is cube or cylinder.

FACE AND EDGES

A solid with polygonal faces.

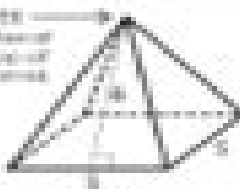
PRISM

A polyhedron with two congruent, parallel bases and a height.

SOLID FIGURE

Represented with a cone and a cylinder.

APPE
A vertex that is not a face.



PRISM

A polyhedron with congruent bases and three or more rectangular faces that connect the bases.

FACE

A flat surface that is a two-dimensional solid figure.



EDGE

The polygon that forms the bottom of a pyramid.

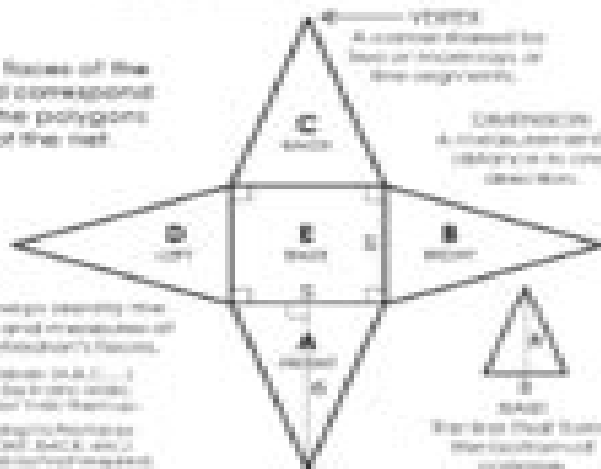
PLANE FIGURE

Set of solid figures that are square and a cylinder.

VERTS

A vertex that is not a face or edge.

The faces of the solid correspond to the polygons of the net.



CONNECTION
A net is a flat surface that can be folded to form a solid figure.



EDGE
The line that forms the bottom of a pyramid.

The surface area of a solid is the sum of the areas of its faces that correspond to the net.

FACE	FACE	AREA	AREA
A	front	triangle	$A = \frac{5 \cdot 5}{2} = 12.5 \text{ units}^2$
B	right	triangle	$A = \frac{5 \cdot 5}{2} = 12.5 \text{ units}^2$
C	back	triangle	$A = \frac{5 \cdot 5}{2} = 12.5 \text{ units}^2$
D	left	triangle	$A = \frac{5 \cdot 5}{2} = 12.5 \text{ units}^2$
E	base	square	$A = 5 \cdot 5 = 25 \text{ units}^2$
SURFACE AREA		$12.5 \text{ units}^2 + 12.5 \text{ units}^2 + 12.5 \text{ units}^2 + 12.5 \text{ units}^2 + 25 \text{ units}^2 = 65 \text{ units}^2$	

ALIGNS TO ALL MATH PROGRAMS & STANDARDS

Math Graphic Organizers For Surface Area

**Charlene E. Beckmann, Denisse R.
Thompson, Rheta N. Rubenstein**



Math Graphic Organizers For Surface Area:

A Guide to Graphic Organizers James Bellanca, 2007-05-30 Creating a mindful rendering of student thinking with these graphic tools is at the heart of this extensive work K 12 teachers will applaud this effort as they use these graphic organizers in rich and relevant instructional activities Robin Fogarty Educational Consultant and Author An excellent aid in teaching students to gather and process data systematically develop critical thinking skills and become actively engaged learners Mary Jo Johnson Educational Evaluator North Carolina School for the Deaf Morganton NC Help students organize their thinking process content and work cooperatively Graphic organizers are effective research validated tools for supporting student achievement promoting students higher level thinking and strengthening learners visual and metacognitive skills In this combined update of The Cooperative Think Tank I and II James Bellanca offers teachers a collection of 24 ready to use graphic organizers to enhance student learning across subject areas and grade levels Presenting each graphic organizer in its own chapter the author includes lessons for introducing these engaging learning tools to students and offers tips for maximizing their positive learning effects Revised with current research new graphic organizers and a streamlined format this edition also provides guidelines for using graphic organizers to Support cooperative learning groups Help students process content Effectively assess students understanding of concepts For novice teachers or seasoned veterans Bellanca s extensive collection is the ideal guide to help you integrate graphic organizers into daily instruction **Content-Area**

Graphic Organizers for Math Walch Publishing, 2004 Help students visualize what they re learning Helps students organize information for better comprehension Appeals to different learning styles Present essential teaching tools including concept maps flow charts and more Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R.

Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are

able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

60 Must-Have Graphic Organizers, Grades K - 5 Ginger Baggette, 2012-01-03 Graphic organizers are tried and true effective teaching tools The blank organizers in 60 Must Have Graphic Organizers are ready to go teachers of grades K 5 need to supply only the topics Students can use these reproducible organizers to practice pre writing skills identify story elements collect and sort information organize schedules and solve problems This 128 page book is packed with teacher generated ideas for multiple subject area uses that can be adapted for students of varied ages abilities and learning styles as well as for individual and whole class needs *Content Area Lessons Using Graphic Organizers, Grade 6* Debra J. Housel, 2008 Teaching lessons that meet the standards for your grade level in reading writing science geography history and math *Resources for Preparing Middle School Mathematics Teachers* Cheryl Beaver, Laurie J. Burton, Maria Gueorguieva Gargova Fung, Klay Kruczek, 2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors Cover

Content Area Lessons Using Graphic Organizers Grd 1 Debra Housel, 2008 Teaching lessons that meet the standards for your grade level in reading writing science geography history and math **Teaching Mathematics in the Visible Learning Classroom, Grades 6-8** John Almarode, Douglas Fisher, Joseph Assof, Sara Delano Moore, John Hattie, Nancy Frey, 2018-10-10 Select the right task at the right time for the right phase of learning It could happen in the morning during homework review Or perhaps it happens when listening to students as they struggle through a challenging problem Or maybe even after class when planning a lesson At some point the question arises How do I influence students learning what s going to generate that light bulb aha moment of understanding In this sequel to the megawatt best seller Visible Learning for Mathematics John Almarode Douglas Fisher Nancy Frey John Hattie and Kateri Thunder help you answer that question by showing how Visible Learning strategies look in action in the mathematics classroom Walk in the shoes of middle school teachers as they engage in the 200 micro

decisions per minute needed to balance the strategies tasks and assessments seminal to high impact mathematics instruction Using grade leveled examples and a decision making matrix you ll learn to Articulate clear learning intentions and success criteria at surface deep and transfer levels Employ evidence to guide students along the path of becoming metacognitive and self directed mathematics achievers Use formative assessments to track what students understand what they don t and why Select the right task for the conceptual procedural or application emphasis you want ensuring the task is for the right phase of learning Adjust the difficulty and complexity of any task to meet the needs of all learners It s not only what works but when Exemplary lessons video clips and online resources help you leverage the most effective teaching practices at the most effective time to meet the surface deep and transfer learning needs of every student **Standards and Standardization:**

Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2015-02-28 Effective communication requires a common language a truth that applies to science and mathematics as much as it does to culture and conversation Standards and Standardization Concepts Methodologies Tools and Applications addresses the necessity of a common system of measurement in all technical communications and endeavors in addition to the need for common rules and guidelines for regulating such enterprises This multivolume reference will be of practical and theoretical significance to researchers scientists engineers teachers and students in a wide array of disciplines *Common Core Mathematics Standards and Implementing Digital Technologies* Polly, Drew,2013-05-31 Standards in the American education system are traditionally handled on a state by state basis which can differ significantly from one region of the country to the next Recently initiatives proposed at the federal level have attempted to bridge this gap Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples current research and best practices for teaching all students regardless of grade level or regional location This book is part of the Advances in Educational Technologies and Instructional Design series collection **Every Math Learner, Grades 6-12** Nanci N. Smith,2017-02-02 As a secondary mathematics teacher you know that students are different and learn differently And yet when students enter your classroom you somehow must teach these unique individuals deep mathematics content using rigorous standards The curriculum is vast and the stakes are high Is differentiation really the answer How can you make it work Nationally recognized math differentiation expert Nanci Smith debunks the myths revealing what differentiation is and isn t In this engaging book Smith reveals a practical approach to teaching for real learning differences You ll gain insights into an achievable daily differentiation process for ALL students Theory lite and practice heavy this book shows how to maintain order and sanity while helping your students know understand and even enjoy doing mathematics Classroom videos teacher vignettes ready to go lesson ideas and rich

mathematics examples help you build a manageable framework of engaging sense making math Busy secondary mathematics teachers coaches and teacher teams will learn to Provide practical structures for assessing how each of your students learns and processes mathematics concepts Design implement manage and formatively assess and respond to learning in a differentiated classroom Plan specific standards aligned differentiated lessons activities and assessments Adjust current instructional materials and program resources to better meet students needs This book includes classroom videos in depth student work samples student surveys templates before and after lesson demonstrations examples of 5 day sequenced lessons and a robust companion website with downloadables of all the tools in the books plus other resources for further planning Every Math Learner Grades 6 12 will help you know and understand your students as learners for daily differentiation that accelerates their mathematics comprehension This book is an excellent resource for teachers and administrators alike It clearly explains key tenants of effective differentiation and through an interactive approach offers numerous practical examples of secondary mathematics differentiation This book is a must read for any educator looking to reach all students Brad Weinhold Ed D Assistant Principal Overland High School Strategies for Connecting Content and Language for ELLs: Mathematics eBook Eugenia Mora-Flores,Angelica Machado,2015-01-27 This practical guide provides research based instructional strategies to develop English language learners academic language in mathematics Using these strategies teachers can encourage students to make academic language connections through listening speaking reading and writing Digital resources are included with students reproducibles English Language Learners in the Mathematics Classroom Debra Coggins,2007-02-12 The number of students whose first language is not English is increasing As a result many teachers need new resources to adapt their teaching of mathematics to support the mathematical learning of students with limited English and to include them in rigorous instruction By incorporating multimodal strategies teachers can more confidently teach standards based mathematics that can reach all of their students Through simple straightforward language and examples this resource helps teachers develop specialised understanding and strategy knowledge for supporting a high level of mathematics learning along with language acquisition **The Math Pact, Middle School** Sarah B. Bush,Karen S. Karp,Barbara J. Dougherty,2020-09-19 A schoolwide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you re staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddied their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations

representations rules and generalizations within and across classrooms and grades Importantly you ll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to dos and try it outs Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students build on existing understanding to find new success and most importantly love learning and doing mathematics **English Learners in the Mathematics**

Classroom Debra Coggins,2014-08-19 Research based strategies to reach English learners now aligned with the Common Core Enable your English learners to build higher level math skills and gain greater fluency in their new language all while achieving the goals of the Common Core Now in its second edition this trusted resource includes Mathematics lesson scenarios in every chapter directly connected to Common Core Standards and the Standards for Mathematical Practice Instructional approaches that promote participation hands on learning and true comprehension of mathematics concepts that benefit ALL students Sample lessons visuals and essential vocabulary that connect mathematical concepts with language development **Content Area Lessons Using Graphic Organizers, Grade 5** Debra Housel,2008 Teaching lessons that

meet the standards for your grade level in reading writing science geography history and math Enduring Issues In Special Education Barbara Bateman,John W. Lloyd,Melody Tankersley,2015-02-20 Enduring Issues in Special Education is aimed at any course in the undergraduate or graduate special education curriculum that is wholly or partly devoted to a critical examination of current issues in special education The book organizes 28 chapters into seven sections using familiar structuring principles what who where how when why and whither Each section begins with an introduction that provides historical legal and theoretical background information and organizing commentary for the chapters that follow The book s objective in addition to informing readers about the issues is to develop critical thinking skills in the context of special education Key features include the following Dialectic Format Each of the 28 chapters presents compelling reasons for addressing the issue at hand and specific ways to do so Because each issue is written from different perspectives and focuses on a variety of aspects readers are encouraged to weigh the arguments seek additional information and come up with synthesized positions of their own Organizing Framework The book s seven sections have been arranged according to a scheme that is the essence of most investigative reporting and provides a coherent easy to understand framework for readers Expertise All chapters are written by leading scholars who are highly regarded experts in their fields and conclude with suggested readings and discussion questions for additional study *Content Area Lessons Using Graphic Organizers, Grade 3* Debra Housel,2008 Teaching lessons that meet the standards for your grade level in reading writing science geography history and math **Getting to the Common Core** Sharon L. Spencer,Sandra Vavra,2015-01-01 The Common Core Standards have recently been adopted in most states across the nation and teachers are in the process of getting to the core

of these standards Teaching to standards is not a new concept teachers have adapted to new standards every few years for quite some time And teachers are adaptable as can be seen in this book We are writing this book to demonstrate how teachers use research based strategies to meet Common Core Standards while still focusing on students Our goal is to help teachers visualize students in action as other teachers describe the implementation of research based strategies in their own classrooms show student work samples and provide reflections of student success in achieving the standards Many Common Core Standards books focus on the standards but our approach focuses on strategies that engage the students in the classroom showing how different teachers at varying grade levels have used the strategies to meet the standards With this focus we believe that teachers gain a new and positive perspective on approaching the new standards and see the flexibility of strategies for meeting standards across subject areas We have examined research on the strategies with the purpose of giving teachers a brief description of why these strategies work before giving actual examples from classrooms We also work closely with teachers in the public schools and have our finger on the pulse of what is happening in the public schools one of the current stressors being unpacking the Common Core Standards This book actually focuses on practice We begin by laying out a rationale in our first chapter The Core Values of Education Then each chapter focuses on a strategy including 1 a brief description about the research supporting each strategy and 2 several examples from different grade levels which include a description of how the strategy was used student work samples and a reflection on the use of the strategy The research descriptions are fairly short because while we believe professional educators aka teachers in this case should know the research that supports practice we know they are not typically interested in long diatribes about the research

The Math Pact, Elementary Karen S. Karp, Barbara J. Dougherty, Sarah B. Bush, 2020-09-19 A school wide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you're staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddled their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations representations rules and generalizations within and across classrooms and grades Importantly you'll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to do and try it out Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students

build on existing understanding to find new success and most importantly love learning and doing mathematics

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