BIG IDEA MATH GEOMETRY

BIG IDEA MATH GEOMETRY IS A COMPREHENSIVE APPROACH DESIGNED TO DEEPEN STUDENTS' UNDERSTANDING OF GEOMETRIC CONCEPTS THROUGH INTERACTIVE PROBLEM-SOLVING AND VISUAL LEARNING TECHNIQUES. THIS EDUCATIONAL FRAMEWORK EMPHASIZES CRITICAL THINKING, SPATIAL REASONING, AND THE APPLICATION OF GEOMETRIC PRINCIPLES IN REAL-WORLD CONTEXTS. BY FOCUSING ON THE CORE IDEAS OF GEOMETRY, STUDENTS GAIN A STRONG FOUNDATION THAT SUPPORTS ADVANCED MATHEMATICAL STUDIES AND PRACTICAL APPLICATIONS. THE BIG IDEA MATH GEOMETRY CURRICULUM INTEGRATES VARIOUS TEACHING STRATEGIES AND RESOURCES TO ENHANCE ENGAGEMENT AND MASTERY. THIS ARTICLE EXPLORES THE FUNDAMENTAL COMPONENTS OF BIG IDEA MATH GEOMETRY, ITS INSTRUCTIONAL DESIGN, AND THE BENEFITS IT OFFERS EDUCATORS AND LEARNERS ALIKE. ADDITIONALLY, IT HIGHLIGHTS KEY CONCEPTS, COMMON CHALLENGES, AND EFFECTIVE METHODS TO OPTIMIZE GEOMETRY INSTRUCTION. THE FOLLOWING SECTIONS PROVIDE A DETAILED OVERVIEW OF THESE ASPECTS FOR A THOROUGH UNDERSTANDING OF BIG IDEA MATH GEOMETRY.

- UNDERSTANDING BIG IDEA MATH GEOMETRY
- Core Concepts in Big Idea Math Geometry
- INSTRUCTIONAL STRATEGIES AND RESOURCES
- BENEFITS OF USING BIG IDEA MATH GEOMETRY
- Challenges and Solutions in Teaching Geometry

UNDERSTANDING BIG IDEA MATH GEOMETRY

BIG IDEA MATH GEOMETRY REPRESENTS A STRUCTURED AND THEMATIC APPROACH TO TEACHING GEOMETRY, FOCUSING ON OVERARCHING CONCEPTS RATHER THAN ISOLATED FACTS. THIS METHOD ENCOURAGES LEARNERS TO SEE THE CONNECTIONS BETWEEN DIFFERENT GEOMETRIC PRINCIPLES, FOSTERING A MORE INTEGRATED UNDERSTANDING. THE CURRICULUM IS DESIGNED TO PROMOTE DEEP CONCEPTUAL COMPREHENSION BY LINKING GEOMETRY WITH OTHER AREAS OF MATHEMATICS, SUCH AS ALGEBRA AND MEASUREMENT. IT SUPPORTS THE DEVELOPMENT OF SPATIAL VISUALIZATION SKILLS, WHICH ARE CRITICAL FOR SUCCESS IN STEM FIELDS. THE APPROACH ALSO EMPHASIZES THE PRACTICAL APPLICATION OF GEOMETRY IN EVERYDAY LIFE, HELPING STUDENTS RECOGNIZE THE RELEVANCE OF GEOMETRIC THINKING BEYOND THE CLASSROOM.

FOUNDATIONS OF THE BIG IDEA APPROACH

The foundational aspect of big idea math geometry lies in identifying and exploring key themes that recur throughout the study of shapes, sizes, and spatial relationships. These themes include properties of shapes, transformations, congruence, similarity, and the Pythagorean theorem. By focusing on these essential ideas, the curriculum promotes a cohesive learning experience that builds progressively from basic to advanced topics. This approach contrasts with traditional methods that often treat geometry as a collection of disconnected rules and formulas.

INTEGRATION WITH MATHEMATICAL PRACTICES

BIG IDEA MATH GEOMETRY INTEGRATES MATHEMATICAL PRACTICES SUCH AS REASONING ABSTRACTLY, CONSTRUCTING VIABLE ARGUMENTS, AND MODELING WITH MATHEMATICS. STUDENTS ARE ENCOURAGED TO ENGAGE IN PROBLEM-SOLVING ACTIVITIES THAT REQUIRE LOGICAL DEDUCTION AND THE USE OF GEOMETRIC TOOLS. THIS INTEGRATION HELPS DEVELOP CRITICAL SKILLS BEYOND ROTE MEMORIZATION, ENABLING LEARNERS TO APPLY GEOMETRIC CONCEPTS IN DIVERSE SCENARIOS. THE CURRICULUM ALSO ALIGNS WITH NATIONAL STANDARDS TO ENSURE THAT STUDENTS ACQUIRE COMPETENCIES ESSENTIAL FOR ACADEMIC AND PROFESSIONAL SUCCESS.

CORE CONCEPTS IN BIG IDEA MATH GEOMETRY

THE CORE CONCEPTS COVERED IN BIG IDEA MATH GEOMETRY FORM THE BACKBONE OF THE SUBJECT AND PROVIDE A ROADMAP FOR INSTRUCTION. THESE CONCEPTS ENCAPSULATE FUNDAMENTAL GEOMETRIC PRINCIPLES AND RELATIONSHIPS THAT STUDENTS MUST UNDERSTAND THOROUGHLY. MASTERY OF THESE IDEAS EQUIPS LEARNERS WITH THE ABILITY TO ANALYZE AND SOLVE COMPLEX GEOMETRIC PROBLEMS EFFICIENTLY.

PROPERTIES OF GEOMETRIC FIGURES

THIS CONCEPT INVOLVES THE STUDY OF ATTRIBUTES SUCH AS ANGLES, SIDES, SYMMETRY, AND DIMENSIONS OF VARIOUS GEOMETRIC FIGURES INCLUDING TRIANGLES, QUADRILATERALS, CIRCLES, AND POLYGONS. UNDERSTANDING THESE PROPERTIES IS ESSENTIAL FOR CLASSIFYING SHAPES AND SOLVING RELATED PROBLEMS. THE CURRICULUM EMPHASIZES THE USE OF PRECISE DEFINITIONS AND THEOREMS TO DESCRIBE THESE FIGURES ACCURATELY.

TRANSFORMATIONS AND SYMMETRY

Transformations such as translations, rotations, reflections, and dilations are key topics within big idea math geometry. These operations help students understand how shapes change while maintaining certain properties. Symmetry, a related concept, is explored in terms of line symmetry and rotational symmetry, which are important in both theoretical and practical contexts.

CONGRUENCE AND SIMIL ARITY

CONGRUENCE REFERS TO FIGURES THAT ARE IDENTICAL IN SHAPE AND SIZE, WHILE SIMILARITY RELATES TO FIGURES THAT HAVE THE SAME SHAPE BUT DIFFERENT SIZES. THESE CONCEPTS ARE CRUCIAL FOR UNDERSTANDING GEOMETRIC RELATIONSHIPS AND PROOFS. THE CURRICULUM INCLUDES CRITERIA FOR PROVING CONGRUENCE AND SIMILARITY, SUCH AS SIDE-ANGLE-SIDE AND ANGLE-ANGLE SIMILARITY THEOREMS.

THE PYTHAGOREAN THEOREM AND DISTANCE

THE PYTHAGOREAN THEOREM IS A FUNDAMENTAL PRINCIPLE THAT RELATES THE SIDES OF A RIGHT TRIANGLE. IT SERVES AS A CORNERSTONE FOR VARIOUS GEOMETRIC APPLICATIONS, INCLUDING DISTANCE CALCULATIONS AND COORDINATE GEOMETRY. BIG IDEA MATH GEOMETRY EXPLORES THIS THEOREM IN DEPTH, DEMONSTRATING ITS PROOFS AND PRACTICAL USES.

INSTRUCTIONAL STRATEGIES AND RESOURCES

EFFECTIVE TEACHING OF BIG IDEA MATH GEOMETRY RELIES ON A VARIETY OF INSTRUCTIONAL STRATEGIES AND RESOURCES THAT CATER TO DIVERSE LEARNING STYLES. THESE METHODS ARE DESIGNED TO ENGAGE STUDENTS ACTIVELY AND PROMOTE A DEEP UNDERSTANDING OF GEOMETRIC CONCEPTS THROUGH EXPLORATION AND PRACTICE.

VISUAL AND HANDS-ON LEARNING

VISUALIZATION PLAYS A CRITICAL ROLE IN GEOMETRY EDUCATION. USING TOOLS SUCH AS GEOMETRIC MODELS, MANIPULATIVES, AND DRAWING SOFTWARE HELPS STUDENTS GRASP SPATIAL RELATIONSHIPS AND PROPERTIES MORE CONCRETELY. HANDS-ON ACTIVITIES ENCOURAGE EXPERIMENTATION AND DISCOVERY, REINFORCING THEORETICAL KNOWLEDGE.

PROBLEM-BASED LEARNING

PROBLEM-BASED LEARNING (PBL) SITUATES GEOMETRY WITHIN REAL-WORLD CONTEXTS, CHALLENGING STUDENTS TO APPLY THEIR KNOWLEDGE TO SOLVE AUTHENTIC PROBLEMS. THIS APPROACH FOSTERS CRITICAL THINKING AND PERSEVERANCE, AS LEARNERS WORK THROUGH COMPLEX SCENARIOS THAT REQUIRE STRATEGIC REASONING AND MULTIPLE SOLUTION PATHWAYS.

TECHNOLOGY INTEGRATION

Incorporating technology enhances the learning experience in big idea math geometry. Interactive geometry software, dynamic graphing tools, and online platforms provide opportunities for visualization, instant feedback, and differentiated instruction. Technology supports both teaching and assessment by making abstract concepts more accessible.

ASSESSMENT AND FEEDBACK

FORMATIVE AND SUMMATIVE ASSESSMENTS ALIGNED WITH THE BIG IDEA MATH GEOMETRY CURRICULUM ENABLE EDUCATORS TO MONITOR STUDENT PROGRESS EFFECTIVELY. FREQUENT FEEDBACK HELPS IDENTIFY AREAS OF DIFFICULTY AND INFORMS INSTRUCTIONAL ADJUSTMENTS. ASSESSMENTS INCLUDE QUIZZES, PROJECTS, PERFORMANCE TASKS, AND REFLECTIVE WRITING TO EVALUATE UNDERSTANDING COMPREHENSIVELY.

BENEFITS OF USING BIG IDEA MATH GEOMETRY

IMPLEMENTING BIG IDEA MATH GEOMETRY IN INSTRUCTIONAL SETTINGS OFFERS NUMEROUS ADVANTAGES FOR BOTH STUDENTS AND EDUCATORS. THIS APPROACH ENHANCES CONCEPTUAL UNDERSTANDING, PROMOTES ENGAGEMENT, AND PREPARES LEARNERS FOR ADVANCED STUDIES AND CAREERS IN STEM FIELDS.

ENHANCED CONCEPTUAL UNDERSTANDING

BY FOCUSING ON OVERARCHING THEMES AND CONNECTIONS, STUDENTS DEVELOP A DEEPER AND MORE COHERENT UNDERSTANDING OF GEOMETRY. THIS HOLISTIC GRASP FACILITATES RETENTION AND APPLICATION OF KNOWLEDGE, REDUCING RELIANCE ON ROTE MEMORIZATION.

IMPROVED PROBLEM-SOLVING SKILLS

THE CURRICULUM'S EMPHASIS ON REASONING AND REAL-WORLD APPLICATIONS CULTIVATES STRONG PROBLEM-SOLVING ABILITIES. STUDENTS LEARN TO APPROACH CHALLENGES METHODICALLY, ANALYZE INFORMATION CRITICALLY, AND DEVISE INNOVATIVE SOLUTIONS.

INCREASED ENGAGEMENT AND MOTIVATION

Interactive and varied instructional methods make learning geometry more engaging. Students benefit from opportunities to explore, collaborate, and use technology, which boosts motivation and confidence in their mathematical abilities.

PREPARATION FOR FUTURE ACADEMIC AND CAREER SUCCESS

BIG IDEA MATH GEOMETRY EQUIPS LEARNERS WITH SKILLS AND KNOWLEDGE ESSENTIAL FOR HIGHER EDUCATION AND STEM CAREERS. THE FOCUS ON CRITICAL THINKING, SPATIAL REASONING, AND MATHEMATICAL COMMUNICATION ALIGNS WITH THE

CHALLENGES AND SOLUTIONS IN TEACHING GEOMETRY

Despite its benefits, teaching big idea math geometry presents certain challenges that educators must address to optimize student outcomes. Understanding these obstacles and implementing effective solutions is crucial for successful instruction.

COMMON STUDENT DIFFICULTIES

STUDENTS OFTEN STRUGGLE WITH ABSTRACT CONCEPTS, SPATIAL VISUALIZATION, AND THE LOGICAL STRUCTURE OF GEOMETRIC PROOFS. THESE DIFFICULTIES CAN HINDER PROGRESS AND LEAD TO FRUSTRATION IF NOT PROPERLY MANAGED.

EFFECTIVE DIFFERENTIATION STRATEGIES

To accommodate diverse learning needs, teachers can use differentiated instruction, including varied task complexity, visual aids, and scaffolded support. Personalized feedback and small-group interventions also help address individual challenges.

PROFESSIONAL DEVELOPMENT FOR EDUCATORS

ONGOING TRAINING AND COLLABORATION ARE ESSENTIAL FOR TEACHERS TO STAY CURRENT WITH BEST PRACTICES IN BIG IDEA MATH GEOMETRY. WORKSHOPS, PEER OBSERVATIONS, AND ACCESS TO QUALITY RESOURCES EMPOWER EDUCATORS TO ENHANCE THEIR INSTRUCTIONAL SKILLS.

LEVERAGING TECHNOLOGY TO OVERCOME BARRIERS

TECHNOLOGY TOOLS CAN SIMPLIFY COMPLEX GEOMETRIC CONCEPTS AND PROVIDE INTERACTIVE LEARNING EXPERIENCES THAT SUPPORT STRUGGLING STUDENTS. VIRTUAL MANIPULATIVES, TUTORIALS, AND ADAPTIVE LEARNING PLATFORMS OFFER CUSTOMIZED ASSISTANCE THAT PROMOTES MASTERY.

SUMMARY OF KEY STRATEGIES IN BIG IDEA MATH GEOMETRY

- FOCUS ON CORE GEOMETRIC THEMES TO FOSTER CONCEPTUAL UNDERSTANDING
- USE VISUAL MODELS AND TECHNOLOGY TO ENHANCE SPATIAL REASONING
- IMPLEMENT PROBLEM-BASED LEARNING TO APPLY CONCEPTS IN REAL CONTEXTS
- EMPLOY DIFFERENTIATED INSTRUCTION TO MEET DIVERSE LEARNER NEEDS
- INCORPORATE CONTINUOUS ASSESSMENT AND CONSTRUCTIVE FEEDBACK

FREQUENTLY ASKED QUESTIONS

WHAT IS BIG IDEAS MATH GEOMETRY?

BIG IDEAS MATH GEOMETRY IS A COMPREHENSIVE MATHEMATICS CURRICULUM DESIGNED TO TEACH GEOMETRY CONCEPTS THROUGH INTERACTIVE LESSONS, REAL-WORLD APPLICATIONS, AND PROBLEM-SOLVING STRATEGIES.

HOW DOES BIG IDEAS MATH GEOMETRY ALIGN WITH COMMON CORE STANDARDS?

BIG IDEAS MATH GEOMETRY IS FULLY ALIGNED WITH COMMON CORE STATE STANDARDS, ENSURING THAT LESSONS AND ACTIVITIES MEET THE REQUIRED EDUCATIONAL BENCHMARKS FOR HIGH SCHOOL GEOMETRY.

WHAT ARE SOME KEY TOPICS COVERED IN BIG IDEAS MATH GEOMETRY?

KEY TOPICS INCLUDE POINTS, LINES, PLANES, ANGLES, CONGRUENCE, SIMILARITY, RIGHT TRIANGLES, CIRCLES, AREA, VOLUME, AND COORDINATE GEOMETRY.

DOES BIG IDEAS MATH GEOMETRY PROVIDE DIGITAL RESOURCES FOR STUDENTS?

YES, BIG IDEAS MATH GEOMETRY OFFERS DIGITAL RESOURCES SUCH AS EBOOKS, INTERACTIVE ACTIVITIES, VIDEO TUTORIALS, AND ONLINE ASSESSMENTS TO SUPPORT BOTH IN-CLASS AND REMOTE LEARNING.

HOW CAN TEACHERS ASSESS STUDENT UNDERSTANDING USING BIG IDEAS MATH GEOMETRY?

TEACHERS CAN USE BUILT-IN QUIZZES, CHAPTER TESTS, PERFORMANCE TASKS, AND FORMATIVE ASSESSMENTS AVAILABLE WITHIN THE BIG IDEAS MATH GEOMETRY PROGRAM TO EVALUATE STUDENT COMPREHENSION.

IS BIG IDEAS MATH GEOMETRY SUITABLE FOR REMOTE OR HYBRID LEARNING ENVIRONMENTS?

YES, THE PROGRAM INCLUDES ONLINE PLATFORMS AND DIGITAL TOOLS THAT MAKE IT SUITABLE FOR REMOTE, HYBRID, OR TRADITIONAL CLASSROOM SETTINGS.

WHAT MAKES BIG IDEAS MATH GEOMETRY DIFFERENT FROM OTHER GEOMETRY CURRICULA?

BIG IDEAS MATH GEOMETRY EMPHASIZES CONCEPTUAL UNDERSTANDING, REAL-WORLD APPLICATIONS, AND INTERACTIVE LEARNING, MAKING GEOMETRY ACCESSIBLE AND ENGAGING FOR DIVERSE LEARNERS.

ARE THERE SUPPORT MATERIALS AVAILABLE FOR PARENTS USING BIG IDEAS MATH GEOMETRY AT HOME?

YES, THE CURRICULUM PROVIDES PARENT GUIDES, ANSWER KEYS, AND ONLINE RESOURCES TO HELP PARENTS ASSIST THEIR CHILDREN WITH GEOMETRY HOMEWORK AND CONCEPTS.

CAN BIG IDEAS MATH GEOMETRY BE INTEGRATED WITH OTHER STEM SUBJECTS?

ABSOLUTELY, BIG IDEAS MATH GEOMETRY INCORPORATES PROBLEM-SOLVING AND ANALYTICAL SKILLS THAT COMPLEMENT STEM SUBJECTS LIKE PHYSICS, ENGINEERING, AND COMPUTER SCIENCE.

HOW OFTEN IS THE BIG IDEAS MATH GEOMETRY CURRICULUM UPDATED?

THE CURRICULUM IS REGULARLY UPDATED TO REFLECT THE LATEST EDUCATIONAL STANDARDS, TECHNOLOGY ADVANCEMENTS, AND TEACHING METHODOLOGIES TO ENSURE RELEVANCE AND EFFECTIVENESS.

ADDITIONAL RESOURCES

1. BIG IDEAS MATH: GEOMETRY

THIS COMPREHENSIVE TEXTBOOK COVERS FUNDAMENTAL CONCEPTS IN GEOMETRY WITH A FOCUS ON PROBLEM-SOLVING AND REAL-WORLD APPLICATIONS. IT INCLUDES CLEAR EXPLANATIONS, INTERACTIVE LESSONS, AND NUMEROUS PRACTICE PROBLEMS TO BUILD A STRONG UNDERSTANDING OF GEOMETRIC PRINCIPLES. THE BOOK ALSO INTEGRATES TECHNOLOGY AND COLLABORATIVE LEARNING STRATEGIES TO ENGAGE STUDENTS.

2. GEOMETRY: BIG IDEAS AND ESSENTIAL UNDERSTANDINGS

THIS BOOK EMPHASIZES THE CORE CONCEPTS AND ESSENTIAL UNDERSTANDINGS IN GEOMETRY, MAKING COMPLEX TOPICS ACCESSIBLE. IT PROVIDES VISUAL AIDS, EXAMPLES, AND EXERCISES THAT ENCOURAGE DEEP CONCEPTUAL LEARNING. IDEAL FOR BOTH TEACHERS AND STUDENTS, IT BRIDGES THEORY WITH PRACTICAL GEOMETRY PROBLEMS.

3. BIG IDEAS MATH: GEOMETRY - STUDENT EDITION

DESIGNED SPECIFICALLY FOR STUDENTS, THIS EDITION OFFERS STEP-BY-STEP INSTRUCTIONS AND PLENTY OF EXAMPLES TO MASTER GEOMETRY TOPICS. IT PROMOTES ACTIVE LEARNING THROUGH INTERACTIVE EXERCISES AND REAL-LIFE CONNECTIONS. THE LAYOUT IS STUDENT-FRIENDLY, HELPING LEARNERS TO ORGANIZE THEIR WORK AND THOUGHTS EFFECTIVELY.

4. EXPLORING GEOMETRY WITH BIG IDEAS MATH

THIS BOOK INVITES READERS TO EXPLORE GEOMETRY THROUGH BIG IDEAS AND THEMATIC UNITS. IT HIGHLIGHTS THE RELATIONSHIPS BETWEEN DIFFERENT GEOMETRIC CONCEPTS AND THEIR APPLICATIONS IN VARIOUS FIELDS SUCH AS ART, ENGINEERING, AND ARCHITECTURE. THE ENGAGING NARRATIVE ENCOURAGES CURIOSITY AND CRITICAL THINKING.

5. BIG IDEAS MATH GEOMETRY TEACHER EDITION

TARGETED AT EDUCATORS, THIS EDITION PROVIDES DETAILED LESSON PLANS, TEACHING STRATEGIES, AND ASSESSMENT TOOLS ALIGNED WITH THE BIG IDEAS MATH CURRICULUM. IT SUPPORTS DIFFERENTIATED INSTRUCTION TO MEET DIVERSE STUDENT NEEDS AND INCLUDES TIPS FOR INTEGRATING TECHNOLOGY INTO GEOMETRY LESSONS.

6. BIG IDEAS MATH: GEOMETRY PRACTICE WORKBOOK

THIS WORKBOOK OFFERS EXTENSIVE PRACTICE PROBLEMS THAT REINFORCE GEOMETRY CONCEPTS COVERED IN THE BIG IDEAS MATH SERIES. IT INCLUDES A VARIETY OF PROBLEM TYPES, FROM BASIC DRILLS TO CHALLENGING APPLICATION QUESTIONS. THE WORKBOOK IS IDEAL FOR HOMEWORK, TEST PREPARATION, AND SKILL REINFORCEMENT.

7. BIG IDEAS MATH GEOMETRY: VISUAL LEARNING GUIDE

FOCUSING ON VISUAL LEARNING, THIS GUIDE USES DIAGRAMS, CHARTS, AND ILLUSTRATIONS TO CLARIFY GEOMETRIC CONCEPTS. IT HELPS STUDENTS WHO BENEFIT FROM VISUAL AIDS AND SPATIAL REASONING TECHNIQUES. THE GUIDE SUPPORTS THE MAIN TEXTBOOK BY BREAKING DOWN COMPLEX IDEAS INTO UNDERSTANDABLE VISUALS.

8. BIG IDEAS MATH GEOMETRY: REAL-WORLD APPLICATIONS

THIS BOOK CONNECTS GEOMETRY PRINCIPLES TO REAL-WORLD SCENARIOS, DEMONSTRATING THEIR IMPORTANCE BEYOND THE CLASSROOM. IT COVERS TOPICS LIKE ARCHITECTURAL DESIGN, NAVIGATION, AND COMPUTER GRAPHICS TO SHOW PRACTICAL USES OF GEOMETRY. THE APPROACH MOTIVATES STUDENTS BY LINKING MATH TO EVERYDAY LIFE AND FUTURE CAREERS.

9. BIG IDEAS MATH: GEOMETRY ENRICHMENT ACTIVITIES

DESIGNED TO CHALLENGE ADVANCED LEARNERS, THIS BOOK OFFERS ENRICHMENT ACTIVITIES AND PROJECTS THAT DEEPEN UNDERSTANDING OF GEOMETRY. IT INCLUDES PUZZLES, INVESTIGATIONS, AND COLLABORATIVE TASKS THAT ENCOURAGE CREATIVE PROBLEM-SOLVING. THE ACTIVITIES AIM TO EXTEND LEARNING AND FOSTER A LOVE FOR MATHEMATICS.

Big Idea Math Geometry

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big idea math geometry: Mindset Mathematics: Visualizing and Investigating Big Ideas, Grade 8 Jo Boaler, Jen Munson, Cathy Williams, 2020-01-29 Engage students in mathematics using growth mindset techniques. The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts. In this volume, you'll find a collection of low floor, high ceiling tasks that will help you do just that, by looking at the big ideas at the eighth-grade level through visualization, play, and investigation. During their work with tens of thousands of teachers, authors Jo Boaler, Jen Munson, and Cathy Williams heard the same message—that they want to incorporate more brain science into their math instruction, but they need guidance in the techniques that work best to get across the concepts they needed to teach. So the authors designed Mindset Mathematics around the principle of active student engagement, with tasks that reflect the latest brain science on learning. Open, creative, and visual math tasks have been shown to improve student test scores, and more importantly change their relationship with mathematics and start believing in their own potential. The tasks in Mindset Mathematics reflect the lessons from brain science that: There is no such thing as a math person - anyone can learn mathematics to high levels. Mistakes, struggle and challenge are the most important times for brain growth. Speed is unimportant in mathematics. Mathematics is a visual and beautiful subject, and our brains want to think visually about mathematics. With engaging questions, open-ended tasks, and four-color visuals that will help kids get excited about mathematics, Mindset Mathematics is organized around nine big ideas which emphasize the connections within the Common Core State

Standards (CCSS) and can be used with any current curriculum.

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