

# Enduring Understandings and Essential Questions

## Mathematics K-12

### Wallingford Public Schools

*Organization is based on the current State Frameworks in Mathematics. The parentheses indicate the proposed structure for the revision of the Math Frameworks.*

Enduring Understandings	Essential Questions
<b>Number Sense-</b> (Numeric Reasoning, Rational Numbers and Proportional Reasoning)	
<ul style="list-style-type: none"> <li>• There are many ways to represent a number.</li> <li>• The problem in front of you is a member of a larger class of problems.</li> <li>• Number sense develops through experience.</li> </ul>	<ul style="list-style-type: none"> <li>• How do I determine the best numerical representation (pictorial, symbolic, objects) for a given situation?</li> <li>• How does finding the common characteristics among similar problems help me to be a more efficient problem solver?</li> <li>• What kinds of experiences help develop number sense?</li> </ul>
<b>Operations-</b> (Numeric Reasoning, Rational Numbers and Proportional Reasoning)	
<ul style="list-style-type: none"> <li>• Operations create relationships between numbers.</li> <li>• The relationships among the operations and their properties promote computational fluency.</li> </ul>	<ul style="list-style-type: none"> <li>• Why do I need mathematical operations?</li> <li>• How do mathematical operations relate to each other?</li> <li>• How do I know which mathematical operation (+, -, x, ÷, exponents, etc.) to use?</li> <li>• How do I know which computational method (mental math, estimation, paper and pencil, and calculator) to use?</li> </ul>
<b>Estimation and Approximation-</b> (Numeric Reasoning, Rational Numbers and Proportional Reasoning, Spatial Relationships)	
<ul style="list-style-type: none"> <li>• In certain situations, an estimate is as useful as an exact answer.</li> </ul>	<ul style="list-style-type: none"> <li>• When is it appropriate to use estimation and/or approximation?</li> <li>• How important are estimations in real life situations?</li> <li>• How do I make a reasonable estimate?</li> </ul>
<b>Ratios, Proportions, and Percents-</b> (Rational Numbers and Proportional Reasoning and Spatial Relationships)	
<ul style="list-style-type: none"> <li>• Proportional relationships express how quantities change in relationship to each other.</li> </ul>	<ul style="list-style-type: none"> <li>• When and why do I use proportional comparisons?</li> <li>• How does comparing quantities describe the relationship between them?</li> </ul>
<b>Measurement-</b> (Spatial Relationships)	
<ul style="list-style-type: none"> <li>• Measurement describes the attributes of objects and events.</li> <li>• Standard units of measure enable people to interpret results or data.</li> <li>• All measurements have some degree of</li> </ul>	<ul style="list-style-type: none"> <li>• Why do I measure?</li> <li>• Why do I need standardized units of measurement?</li> <li>• How does what I measure influence how we measure?</li> </ul>

# Math Enduring Understandings Essential Questions

**Katrin Zwirgmaier**



## **Math Enduring Understandings Essential Questions:**

**Schooling by Design** Grant P. Wiggins, Jay McTighe, 2007 The authors of Understanding by Design share a compelling strategy for creating schools that truly fulfill the central mission of education to help students become thoughtful productive and accomplished at worthy tasks

**Rigor by Design, Not Chance** Karin Hess, 2023-01-18 A practical and systematic approach to deepening student engagement promoting a growth mindset and building a classroom culture that truly supports thinking and learning Every student deserves access to deep and rigorous learning Still some persistent myths about rigor can get in the way such as the belief that it means more or harder work for everyone rather than challenging and advancing students thinking So how can teachers get more clarity on rigor and foster more meaningful learning in their classrooms In *Rigor by Design Not Chance* veteran educator Karin Hess offers not only a clear vision of what makes learning deep and rigorous but also a systematic and equitable approach for engaging students of all ages in rich learning tasks To that end she outlines five essential teacher moves that foster thinking and learning

- 1 Ask a series of probing questions of increasing complexity
- 2 Build schemas in each content area
- 3 Consider ways to strategically scaffold learning
- 4 Design complex tasks that emphasize transfer and evidence based solutions
- 5 Engage students in metacognition and reflection throughout the learning process

From there Hess details how to create an actionable assessment cycle that will drive learning forward in any classroom This book offers a treasure trove of strategies student look for behaviors and templates to guide teachers in their work as well as an array of rich performance based assessments to engage and challenge students School leaders and instructional coaches can also benefit from the variety of teacher friendly supports to foster rigorous learning in their schools Ultimately *Rigor by Design Not Chance* helps educators empower students to take greater ownership of their own learning

**Guided Math in Action** Nicki Newton, 2021-11-04 Learn how to help elementary students build mathematical proficiency with purposeful standards based differentiated engaging small group instruction This best selling book from Dr Nicki Newton provides a repertoire of in depth strategies for conducting effective guided math lessons scaffolding and managing learning in small groups and assessing learning Dr Newton shows you the framework for guided math lessons and then helps you develop an action plan to get started This fully updated second edition features helpful new sections on beliefs teacher moves planning talking and questioning and kidwatching It also contains a brand new study guide to help you get the most out of the book and use it with your colleagues Perfect for teachers coaches and supervisors this popular resource is filled with tools you can use immediately including anchor charts schedules templates and graphic organizers With the practical help throughout you ll be able to implement Tier 1 and 2 lessons easily This book will help you guide all your students to becoming more competent flexible and confident mathematicians

**Leveling Math Workstations in Grades K-2** Nicki

Newton, 2019-03-06 In this book from bestselling author Dr Nicki Newton you ll learn how to level math workstations to engage K 2 students in meaningful purposeful rigorous practice We know students don t learn at the same pace so how do we

take into account where they are and differentiate instruction Dr Nicki has the answers showing how leveled workstations are key in the formative years how they help students operate in their zone of proximal development and how we can use them to help students progress to higher levels of math achievement Topics include Understanding the framework for leveled workstations Making sure workstations are rigorous and not just providing busy work Building your stations in key areas such as counting numbers place value fluency and word problems Keeping students accountable and knowing where they are in their learning trajectory Each chapter offers specific examples activities and tools There is also a clear step by step action plan to help you implement the ideas immediately in your own classroom      **Teaching English Language Learners**

Michaela Colombo,Dana Furbush,2009 This book prepares mainstream teachers to provide content instruction to English language learners      **Creating Standards-Based Integrated Curriculum** Susan M. Drake,2012-05-08 Translate the new standards into meaningful curriculum The Common Core State Standards offer a shared language that ensures consistency and accountability while also giving you the flexibility to design a curriculum that s right for your students Of course knowing what you need to teach doesn t tell you how to teach it and that s where curriculum integration expert Susan M Drake comes in In this new edition of her classic text Drake applies the essential principles of standards based curriculum instruction and assessment to today s unique challenges Focusing on multidisciplinary interdisciplinary and transdisciplinary approaches she provides guidance on Unpacking the Common Core State Standards Planning assessment tasks Designing instructional strategies Developing daily activities Helping students connect essential questions to enduring understandings Included are new examples of exemplary programs discussion questions a sample completed interdisciplinary curriculum and activity suggestions for building your own standards based integrated curriculum This proven resource is the road map teachers and curriculum developers need to navigate the unfamiliar territory of the CCSS and to develop a curriculum that helps their students thrive      **Differentiation Strategies for Mathematics** Wendy Conklin,2009-12-16 Written specifically for K12 mathematics teachers this resource provides the nuts and bolts of differentiation Presented in an easy to implement format

this handy notebook is designed to facilitate the understanding and process of writing differenti      **Equity Moves to Support Multilingual Learners in Mathematics and Science, Grades K-8** Ivannia Soto,Theodore Ruiz Sagun,Michael

Beiersdorf,2022-12-27 A strengths and assets based approach to multilingual learner success As the number of multilingual learners MLLs in US schools continues to grow educators need to learn the moves necessary to support the success of these students in mathematics and science Equity Moves to Support Multilingual Learners in Mathematics and Science Grades K 8 focuses on the literacy opportunities that MLLs can achieve when language scaffolds are taught alongside rigorous math and science content It provides a framework teachers can use to develop equity centered scaffolded math science or STEAM lessons Readers will find Anchor phenomena that demonstrate issues with lesson design and delivery and highlight areas to include language and content scaffolds Examples for honoring the languages of students families and communities Culturally

responsive techniques and easy to use tables featuring the equity moves Vignettes showcasing the equity move in the classroom setting A focus on four language demands vocabulary discourse multiple modes of representation and text features With an assets based approach to what MLLs can do this book helps teachers unpack the language demands of mathematics and science and encourages reflection of their own practices in scaffolding for language and culture

**Moving Learning Forward in Christian Schools** Steven F. Butler, 2021-03-10 Are you ready to make changes in your Christian school Moving Learning Forward in Christian Schools A Practical Guide for a Mission Focused Curriculum challenges those involved in Christian schools to consider changes to better prepare students to enter adulthood and impact the world Readers will gain insights into How current brain research about how the brain learns can be put into practice in classrooms How Christian schools can be much more mission focused than they currently are An excellent framework to shift Christian schools instructional programs from skills and knowledge textbook based curriculum to focusing on understanding and transfer with improved curriculum instruction and assessment A perfect platform for developing better integration of biblical concepts in all subject areas How the six Facets of Understanding from Understanding by Design provide a vehicle to intentionally include the development of personal characteristics that are Bible based and often related to the school s mission A wonderful guideline for helping Christian schools think systemically about changes needed and for developing a three to five year strategic plan for improving the instructional program This is your opportunity to consider concrete and practical ideas for school improvement

**Idea-Based Learning** Edmund J. Hansen, 2023-07-03 Synthesizing the best current thinking about learning course design and promoting student achievement this is a guide to developing college instruction that has clear purpose is well integrated into the curriculum and improves student learning in predictable and measurable ways The process involves developing a transparent course blueprint focused on a limited number of key concepts and ideas related tasks and corresponding performance criteria as well as on frequent practice opportunities and early identification of potential learning barriers Idea based Learning takes as its point of departure the big conceptual ideas of a discipline that give structure and unity to a course and even to the curriculum as opposed to a focus on content that can lead to teaching sequences of loosely related topics and aligns with notions of student centered and outcomes based learning environments Adopting a backwards design model it begins with three parallel processes first identifying the material that is crucial for conceptual understanding second articulating a clear rationale for how to choose learning outcomes based on student needs and intellectual readiness and finally aligning the learning outcomes with the instructional requirements of the authentic performance tasks The resulting syllabi ensure cohesion between sections of the same course as well as between courses within a whole curriculum assuring the progressive development of students skills and knowledge Key elements of IBL include Helping students see the big picture Building courses around one or more authentic performance tasks that illuminate the core concepts of the discipline Clearly identifying performance criteria for all tasks Incorporating practice in

the competencies that are deemed important for students success By placing the onus of learning on the student liberating faculty to take on the role of learning coaches Designing tasks that help students unlearn simplistic ideas and replace them with improved understandings Edmund Hansen expertly guides the reader through the steps of the process providing examples along the way and concluding with a sample course design document and syllabus that illustrate the principles he propounds

**Differentiating Assessment in Middle and High School Mathematics and Science** Sheryn

Spencer-Waterman,2013-09-05 This book by Sheryn Spencer Waterman follows the bestselling Handbook on Differentiated Instruction for Middle and High Schools With numerous examples and strategies it is an all inclusive manual on assessing student readiness interests learning and thinking styles It includes examples of Pre Formative and Summative assessments Informal and formal assessments Oral and written assessments Project and performance assessments Highly structured and enrichment assessments for struggling to gifted students Assessment tools and rubrics

**Teaching with Clarity** Tony

Frontier,2021-06-24 Feeling overwhelmed constantly on a daily basis has unfortunately become the status quo among educators But it doesn't have to be Schools need to stop adding more programs strategies activities resources projects assessments and meetings Though they are often implemented with the best intentions these things ultimately end up as clutter that which inhibits our ability to help students learn Instead teachers need more clarity which emerges when we prioritize our efforts to do less with greater focus This isn't simply a matter of teachers doing less Rather teachers need to be intentional and prioritize their efforts to develop deeper understanding among students In Teaching with Clarity Tony Frontier focuses on three fundamental questions to help reduce curricular and organizational clutter in the interest of clarity and focus What does it mean to understand What is most important to understand How do we prioritize our strategic effort to help students understand what is most important By prioritizing clear success criteria intentional design meaningful feedback and a shared purpose teachers can begin to clear away the curricular clutter that overwhelms the profession and embrace the clarity that emerges

Guided Math Lessons in Third Grade Nicki Newton,2021-11-29

Guided Math Lessons in Third Grade provides detailed lessons to help you bring guided math groups to life Based on the bestselling Guided Math in Action this practical book offers 16 lessons taught in a round of 3 concrete pictorial and abstract The lessons are based on the priority standards and cover fluency word problems fractions and place value Author Dr Nicki Newton shows you the content as well as the practices and processes that should be worked on in the lessons so that students not only learn the content but also how to solve problems reason communicate their thinking model use tools use precise language and see structure and patterns Throughout the book you'll find tools templates and blackline masters so that you can instantly adapt the lesson to your specific needs and use it right away With the easy to follow plans in this book students can work more effectively in small guided math groups and have loads of fun along the way Remember that guided math groups are about doing the math So throughout these lessons you will see students working with manipulatives to make meaning doing

mathematical sketches to show what they understand and can make sense of the abstract numbers When students are given the opportunities to make sense of the math in hands on and visual ways then the math begins to make sense to them

*Understanding by Design* Grant P. Wiggins, Jay McTighe, 2005 What is understanding and how does it differ from knowledge How can we determine the big ideas worth understanding Why is understanding an important teaching goal and how do we know when students have attained it How can we create a rigorous and engaging curriculum that focuses on understanding and leads to improved student performance in today's high stakes standards based environment Authors Grant Wiggins and Jay McTighe answer these and many other questions in this second edition of *Understanding by Design* Drawing on feedback from thousands of educators around the world who have used the UbD framework since its introduction in 1998 the authors have greatly revised and expanded their original work to guide educators across the K-16 spectrum in the design of curriculum assessment and instruction With an improved UbD Template at its core the book explains the rationale of backward design and explores in greater depth the meaning of such key ideas as essential questions and transfer tasks Readers will learn why the familiar coverage and activity based approaches to curriculum design fall short and how a focus on the six facets of understanding can enrich student learning With an expanded array of practical strategies tools and examples from all subject areas the book demonstrates how the research based principles of *Understanding by Design* apply to district frameworks as well as to individual units of curriculum Combining provocative ideas thoughtful analysis and tested approaches this new edition of *Understanding by Design* offers teacher designers a clear path to the creation of curriculum that ensures better learning and a more stimulating experience for students and teachers alike

*From Being Woke to Doing the Work*, 2023-02-13 Becoming a culturally relevant teacher is a journey not a destination It is a choice that an educator must make daily to ensure that all students have equitable opportunities to learn This edited book is designed to support educators in building their responsive educator muscles with the aid of reliable research based content related to mindset knowledge and skills The book includes 1 explicit guidance on unpacking self 2 guidance on how to explore the community and lived experiences of students and 3 exemplar practitioner curriculum strategies in Humanities and STEM classrooms Educators will pick up this book from different entry points based on their personal journey There is space for all educators to shift

Juli K. Dixon, Thomasina Lott Adams, 2014-10-09 Focus your curriculum to heighten student achievement Learn 10 high leverage team actions for grades K-5 mathematics instruction and assessment Discover the actions your team should take before a unit of instruction begins as well as the actions and formative assessments that should occur during instruction Examine how to most effectively reflect on assessment results and prepare for the next unit of instruction

**Dance Integration** Karen A. Kaufmann, Jordan Dehline, 2014-06-23 Do you want to create a rich and vibrant classroom environment stimulate your students minds in multiple ways transform your teaching through incorporating the arts in your mathematics and science curriculums Then *Dance Integration* 36 Dance Lesson Plans for

Science and Mathematics is just the book for you The dance lesson plans in this groundbreaking book infuse creativity in mathematics and science content Students will gain a wealth of critical knowledge deepen their critical thinking skills and learn to collaborate and communicate effectively Written for K 5 teachers who are looking for creative ways to teach the standards Dance Integration will help you bring your mathematics and science content to life as you guide your students to create original choreography in mathematics and science and perform it for one another In doing so you will help spark new ideas for your students out of those two curriculums no more same old same old And in the freshness of these new ideas students will increase comfort in performing in front of one another and discussing performances while deepening their understanding of the core content through their kinesthetic experiences The creative thinking skills that you will teach through these lesson plans and the innovative learning that dance provides are what set this book apart from all others in the field Dance Integration was extensively field tested by authors Karen Kaufmann and Jordan Dehline The book contains these features Instructions on developing modules integrating mathematics and science Ready to use lesson plans that classroom teachers physical education teachers dance educators and dance specialists can use in teaching integrated content in mathematics and science Tried and true methods for connecting to 21st century learning standards and integrating dance into K 5 curriculums This book which will help you assess learning equally in dance science and mathematics is organized in three parts Part I introduces the role of dance in education defines dance integration and describes the uses benefits and effects of dance when used in tandem with another content area Part II offers dance and mathematics lessons that parallel the common core standards for mathematics Part III presents dance and science learning activities in physical science life science earth and space sciences investigation experimentation and technology Each lesson plan includes a warm up a developmental progression of activities and formative and summative assessments and reflections The progressions help students explore experiment create and perform their understanding of the content The plans are written in a conversational narrative and include additional notes for teachers Each lesson explores an essential question relevant to the discipline and may be taught in sequence or as a stand alone lesson Yes Dance Integration will help you meet important standards Common Core State Standards for Mathematics Next Generation Science Standards Standards for Learning and Teaching Dance in the Arts More important this book provides you with a personal aesthetic realm in your classroom that is not part of any other school experience It will help you bring joy and excitement into your classroom And it will help you awaken a community of active and eager learners Isn't that what education is all about

Case Studies in Elementary and Secondary Curriculum Marius Boboc, R. D. Nordgren, 2010 Case Studies in Elementary and Secondary Curriculum provides 21 real world cases that provide the opportunity for educators to explore the different perspectives that different stakeholders take on the concept of curriculum The cases examine how curriculum comes to life as a complex process including the whole continuum ranging from design to implementation and evaluation and how this process can be analyzed and changed



### **Selected Writings from the Journal of the Saskatchewan Mathematics Teachers' Society Egan J**

Chernoff, Bharath Sriraman, Gale L. Russell, 2019-07-01 The teaching and learning of mathematics in Saskatchewan one of three Canadian provinces sharing a border with Montana has a long and storied history An integral part of the past 50 years 1961 2011 of history has been vinculum Journal of the Saskatchewan Mathematics Teachers Society in its many different renditions This monograph which presents ten memorable articles from each of the past five decades i e 50 articles from the past 50 years of the journal provides an opportunity to share this rich history with a wide range of individuals interested in the teaching and learning of mathematics and mathematics education Each decade begins with an introduction providing a historical context and concludes with a decade specific commentary by a prominent member of the Saskatchewan mathematics education community As a result this monograph provides a historical account as well as a contemporary view of many of the trends and issues e g curriculum technology in the teaching and learning of mathematics This book is meant to serve as a resource for a variety of individuals including teachers of mathematics mathematics teacher educators mathematics education researchers historians and undergraduate and graduate students and further as a celebratory retrospective on the work of the Saskatchewan Mathematics Teachers Society

**Collaborating to Support All Learners in Mathematics and Science** Faye Brownlie, Carole Fullerton, Leyton Schnellert, 2011-06-23 In this second volume of It's All About Thinking the authors focus their expertise on the disciplines of mathematics and science translating principles into practices that help other educators with their students How can we help students develop the thinking skills they need to become successful learners How does this relate to deep learning of important concepts in mathematics and science How can we engage and support diverse learners in inclusive classrooms where they develop understanding and thinking skills In this book Faye Leyton and Carole explore these questions and offer classroom examples to help busy teachers develop communities where all students learn This book is written by three experienced educators who offer a welcoming and can do approach to the big ideas in math and science education today In this book you will find insightful ways to teach diverse learners Information circles open ended strategies inquiry manipulatives and models lessons crafted using curriculum design frameworks udl and backwards design assessment for as and of learning fully fleshed out lessons and lesson sequences inductive teaching to help students develop deep learning and thinking skills in Math and Science assessment tools and student samples for concepts drawn from learning outcomes in Math and Science curricula excellent examples of theory and practice made accessible real school examples of collaboration teachers working together to create better learning opportunities for their students

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## **Table of Contents Math Enduring Understandings Essential Questions**

1. Understanding the eBook Math Enduring Understandings Essential Questions
  - The Rise of Digital Reading Math Enduring Understandings Essential Questions
  - Advantages of eBooks Over Traditional Books
2. Identifying Math Enduring Understandings Essential Questions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Math Enduring Understandings Essential Questions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math Enduring Understandings Essential Questions
  - Personalized Recommendations
  - Math Enduring Understandings Essential Questions User Reviews and Ratings
  - Math Enduring Understandings Essential Questions and Bestseller Lists
5. Accessing Math Enduring Understandings Essential Questions Free and Paid eBooks
  - Math Enduring Understandings Essential Questions Public Domain eBooks
  - Math Enduring Understandings Essential Questions eBook Subscription Services
  - Math Enduring Understandings Essential Questions Budget-Friendly Options

6. Navigating Math Enduring Understandings Essential Questions eBook Formats
  - ePub, PDF, MOBI, and More
  - Math Enduring Understandings Essential Questions Compatibility with Devices
  - Math Enduring Understandings Essential Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math Enduring Understandings Essential Questions
  - Highlighting and Note-Taking Math Enduring Understandings Essential Questions
  - Interactive Elements Math Enduring Understandings Essential Questions
8. Staying Engaged with Math Enduring Understandings Essential Questions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math Enduring Understandings Essential Questions
9. Balancing eBooks and Physical Books Math Enduring Understandings Essential Questions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math Enduring Understandings Essential Questions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Math Enduring Understandings Essential Questions
  - Setting Reading Goals Math Enduring Understandings Essential Questions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Enduring Understandings Essential Questions
  - Fact-Checking eBook Content of Math Enduring Understandings Essential Questions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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