2020 HIGHER SCHOOL CERTIFICATE EXAMINATION

Mathematics Standard 1 Mathematics Standard 2

REFERENCE SHEET

Measurement

Limits of accuracy

Absolute error = $\frac{1}{2} \times$ precision Upper bound = measurement + absolute error Lower bound = measurement - absolute error

Length

$$I = \frac{\theta}{360} \times 2\pi r$$

Area

$$A = \frac{\theta}{360} \times \pi r^2$$

$$A = \frac{h}{2} (a + b)$$

$$A = \frac{h}{2} (d_f + d_f)$$

Surface area

$$A = 2\pi r^2 + 2\pi rh$$

$$A = 4\pi r^2$$

$$V = \frac{1}{3}Ah$$

$$V = \frac{4}{2}\pi r^3$$

Trigonometry

sin
$$A = \frac{\text{opp}}{\text{hyp}}$$
, $\cos A = \frac{\text{adj}}{\text{hyp}}$, $\tan A = \frac{\text{opp}}{\text{adj}}$
 $A = \frac{1}{2}ab\sin C$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$c^2 = a^2 + b^2 - 2ab\cos C$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

Financial Mathematics

$$FV = PV(1+r)^n$$

Straight-line method of depreciation

$$S = V_0 - Dm$$

Declining-balance method of depreciation

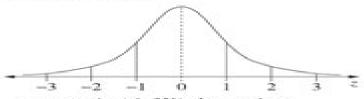
$$S = V_0 (1-r)^n$$

Statistical Analysis

An outlier is a score less than
$$Q_1 - 1.5 \times IQR$$
 or more than $Q_3 + 1.5 \times IQR$

$$z = \frac{x - \mu}{\sigma}$$

Normal distribution



- approximately 68% of scores have z-scores between -1 and 1
- approximately 95% of scores have z-scores between -2 and 2
- approximately 99.7% of scores have z-scores between –3 and 3

Mathematics Standard

Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens

Mathematics Standard:

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 Mathematics Standard Level for the International Baccalaureate Alan Wicks, 2004-07 Through clear explanations a large number of worked examples and many exercises this textbook prepares students for the International Baccalaureate Mathematics Standard Level course Your Mathematics Standards Companion, Grades 3-5 Linda M. Gojak, Ruth Harbin Miles, 2017-05-17 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Sample lesson plans and lesson planning templates Cross referenced index listing the standards in the following states explaining what is unique to the standards of each state Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum Your Mathematics Standards Companion, Grades K-2 Linda M. Gojak, Ruth Harbin Miles, 2017-05-17 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It s all here page by page The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the

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students master the new and challenging material contained in the standards A practical lesson planning process to use with the Common Core based on Classroom Instruction That Works 2nd Ed is included along with six 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 Teaching Secondary Mathematics David Rock, Douglas K. Brumbaugh, 2013-02-15 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 fourth edition combines this pragmatic approach with truly innovative and integrated technology content throughout Synthesized content between the book and comprehensive companion website offers expanded discussion of chapter topics additional examples and technological tips 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 4th edition A fully revised and updated chapter on technological advancements in the teaching of mathematics Connections to both the updated NCTM Focal Points as well as the new Common Core State Standards are well integrated throughout the text 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 companion website with chapter by chapter video lessons teacher tools problem solving Q As helpful links and resources and embedded graphing calculators Common Core Standards for Middle School Mathematics Amitra Schwols, Kathleen Dempsey, 2013-01-15 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 for middle school The meaning of the individual content standards within all six domains Ratios and Proportional Relationships the Number System Expressions and Equations Functions Geometry and Statistics and Probability with an emphasis on areas that represent the most significant changes to business as usual How the content standards and practice standards connect across grade levels to build on prior learning deepen conceptual understanding promote real world application and prepare students for high school level mathematics. Here middle school mathematics teachers and teacher leaders will find information they need to begin adapting their practices to ensure that all students master the challenging material present in the standards 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

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powerful high school mathematics curriculum in any state or district Classroom-Ready Rich Math Tasks, Grades 4-5 Beth McCord Kobett, Francis (Skip) Fennell, Karen S. Karp, Delise Andrews, Sorsha-Maria T. Mulroe, 2021-04-14 Detailed plans for helping elementary students experience deep mathematical learning Do you work tirelessly to make your math lessons meaningful challenging accessible and engaging Do you spend hours you don't have searching for adapting and creating tasks to provide rich experiences for your students that supplement your mathematics curriculum Help has arrived Classroom Ready Rich Math Tasks for Grades 4 5 details more than 50 research and standards aligned high cognitive demand tasks that will have your students doing deep problem based learning These ready to implement engaging tasks connect skills concepts and practices while encouraging students to reason problem solve discuss explore multiple solution pathways connect multiple representations and justify their thinking They help students monitor their own thinking and connect the mathematics they know to new situations In other words these tasks allow students to truly do mathematics Written with a strengths based lens and an attentiveness to all students this guide includes Complete task based lessons referencing mathematics standards and practices vocabulary and materials Downloadable planning tools student resource pages and thoughtful questions and formative assessment prompts Guidance on preparing launching facilitating and reflecting on each task Notes on access and equity focusing on students strengths productive struggle and distance or alternative learning environments With concluding guidance on adapting or creating additional rich tasks for your students this guide will help you give all of your students the deepest most enriching and engaging mathematics learning experience possible Classroom-Ready Rich Math Tasks, Grades K-1 Beth McCord Kobett, Francis (Skip) Fennell, Karen S. Karp, Delise Andrews, Latrenda Knighten, Jeff Shih, 2021-04-12 Detailed plans for helping elementary students experience deep mathematical learning Do you work tirelessly to make your math lessons meaningful challenging accessible and engaging Do you spend hours you don't have searching for adapting and creating tasks to provide rich experiences for your students that supplement your mathematics curriculum Help has arrived Classroom Ready Rich Math Tasks for Grades K 1 details 56 research and standards aligned high cognitive demand tasks that will have your students doing deep problem based learning These ready to implement engaging tasks connect skills concepts and practices while encouraging students to reason problem solve discuss explore multiple solution pathways connect multiple representations and justify their thinking They help students monitor their own thinking and connect the mathematics they know to new situations In other words these tasks allow students to truly do mathematics Written with a strengths based lens and an attentiveness to all students this guide includes Complete task based lessons referencing mathematics standards and practices vocabulary and materials Downloadable planning tools student resource pages and thoughtful questions and formative assessment prompts Guidance on preparing launching facilitating and reflecting on each task Notes on access and equity focusing on students strengths productive struggle and distance or alternative learning environments With concluding guidance on adapting or creating

additional rich tasks for your students this guide will help you give all of your students the deepest most enriching and engaging mathematics learning experience possible Whose Math Is It? Joseph Michael Assof, 2024-07-31 Foster Confidence and Ownership in Every Math Student When it comes to math does it feel like some students embrace problem solving with agency and ownership while others are confused or simply along for the ride How do educators bridge that divide to develop competence confidence and ownership in every student The answers lie in establishing clear and effective measures for success Steeped in the principles of success criteria Whose Math Is It provides educators with everything they need to create a classroom environment where students feel empowered to step up and take the lead Divided into two parts this must read guide first defines what success looks like for math students then provides the research based best practices teachers can use to help students take control of their learning Learn how to Define and establish effective success criteria in a mathematics classroom Implement a variety of strategies to support student ownership and success Develop class wide social norms specific to math Promote metacognition through self regulated learning self assessment and feedback Reinforce student ownership through structured peer interactions and collaboration Whose Math Is It is an essential resource for K 12 math teachers who want to empower their students to actively own their mathematics learning By emphasizing the importance of success criteria promoting self regulated learning and developing math specific social norms this book provides practical strategies for creating an environment where when asked Whose math is it every student can emphatically respond My math Mathematics Teachers' Familiarity with Standards and Their Instructional Practices, 1995 and 1999 Mathematics Learning in Early Childhood National Research Council, Division of Behavioral and Social .2003 Sciences and Education, Center for Education, Committee on Early Childhood Mathematics, 2009-11-13 Early childhood mathematics is vitally important for young children's present and future educational success Research demonstrates that virtually all young children have the capability to learn and become competent in mathematics Furthermore young children enjoy their early informal experiences with mathematics Unfortunately many children's potential in mathematics is not fully realized especially those children who are economically disadvantaged This is due in part to a lack of opportunities to learn mathematics in early childhood settings or through everyday experiences in the home and in their communities Improvements in early childhood mathematics education can provide young children with the foundation for school success Relying on a comprehensive review of the research Mathematics Learning in Early Childhood lays out the critical areas that should be the focus of young children's early mathematics education explores the extent to which they are currently being incorporated in early childhood settings and identifies the changes needed to improve the quality of mathematics experiences for young children This book serves as a call to action to improve the state of early childhood mathematics It will be especially useful for policy makers and practitioners those who work directly with children and their families in shaping the policies that affect the education of young children

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