

## Republic of the Philippines

## Department of Coucation

Caraga Administrative Region SCHOOLS DIVISION OF AGUSAN DEL SUR Trento District 1 TRENTO CENTRAL ELEMENTARY SCHOOL



## SCHOOL MATHEMATICS ACTION PLAN

S.Y. 2021-2022

OBJECTTIVES	ACTIVITIES	PERFORMANCE INDICATORS	TIME FRAME	BUDGET	PERSONS INVOLVED	SUCCESS
To increase pupils performance level in Mathematics	Conduct diagnostic test before the start of classes. Conduct quarter/summative tests	Testing materials are made available and provided to the pupils on time	Whole year round	Php3,000	School Principal, teachers, parents and pupils	All pupils have successfully taken the test.
<ol> <li>To enhance the knowledge and skills of the pupils in Mathematics.</li> </ol>	Use appropriate teaching techniques in teaching	Teaching techniques/materials are made available for the pupils.	Year round	Php6,000	Teachers, Parents and pupils	Pupils achieved at least 80% of the skills reflected on the MELC.
3. Improve teachers competence	Attend trainings, seminars, LAC Sessions, Enroll short courses.	Teachers used their knowledge to suit teaching in this trying time.	Year round	Php5,000	School Heads and leachers	Teachers applied their learnings in their teachings.
Develop     teaching devices     to enhance     teaching-learning     process.	Craft WHLP, RBI, TVBI etc.	Teachers are eager and willing to do their job.	Whole year round	Php 6,000	School Head, feachers	Teachers made devices/TM's are submitted and utilized.

# **Sample Action Plan For Mathematics**

Jennifer Stepanek, Gary Appel, Melinda Leong, Michelle Turner Mangan, Mark Mitchell

#### **Sample Action Plan For Mathematics:**

Driven by Data 2.0 Paul Bambrick-Santoyo,2019-04-04 The bestselling guide for school leaders updated in a new edition Data driven instruction is the philosophy that schools should focus on two simple questions how do you know if are students learning And when they are not what do you do about it Driven by Data 2 0 is a practical guide that answers these questions to empower schools to achieve significant gains in student achievement Rooted in a proven framework that has been implemented in thousands of schools the book presents what makes schools successful along with tools to put the framework into place to make data work for your schools Assess set the roadmap for learning Analyze identify why students struggle Act teach more effectively what students need Build the culture train and develop your staff so that data driven instruction can thrive If you re a K 12 leader coach or teacher looking to implement data driven instruction in your school district Driven by Data 2 0 has the tools to train your staff PD materials videos of exemplar practice and all the resources you need to achieve remarkable results Roll Call: 2012 Clarence Johnson,2012-10-08 After teaching junior high school mathematics for 10 years and serving as a high school principal for 14 years Dr Clarence Johnson conducted research as a doctoral student on improving the mathematics failure rates of African American students You can read about his findings in Roll Call 2012

The Leader's Guide to Standards Douglas B. Reeves, 2003-02-17 In today s school environment educational leaders are mandated to use academic standards to measure the progress of their school's teachers and students Despite the wealth of material that addresses the topic of academic standards there is little written for those who must lead the effort to put in place an effective standards system The Leader's Guide to Standards is a landmark book written by Douglas Reeves an expert in academic standards performance assessment and accountability that shows school principals assistant principals teachers and district level administrators how to build a comprehensive accountability system for standards based reform that focuses on leadership skills Reeves offers practical recommendations for assessing and nurturing teacher performance setting up balanced assessment and accountability policies and making the case for standards to the public In addition the book addresses the vital role that policymakers from the local school board to state and national leaders play in the successful implementation of educational standards Implementing Guided Math: Tools for Educational Leaders Sammons, Laney, 2017-03-01 Support the implementation of the Guided Math framework with this user friendly professional guide written by Guided Math author Laney Sammons This resource provides school leaders coaches principals curriculum directors teacher leaders etc with user friendly strategies for supporting teachers as they embark on teaching components of the Guided Math framework in their classrooms Highlights include how to use the professional learning community model effectively when implementing Guided Math tips for creating a strategic plan for improving students mathematics achievement sample implementation models sample assessments and planning and implementation tools 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 Math Pact, High School Barbara J. Dougherty, Sarah B. Bush, Karen S. Karp, 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 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

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 Il 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

Productive Math Struggle John J. SanGiovanni, Susie Katt, Kevin J. Dykema, 2020-03-09 All students face struggle and they should it is how they learn and grow The teacher's job is not to remove struggle but rather to value and harness it helping students develop good habits of productive struggle But what s missing for many educators is an action plan for how to achieve this especially when it comes to math This book guides teachers through six specific actions including valuing fostering building planning supporting and reflecting on struggle to create a game plan for overcoming obstacles by sharing Actionable steps activities and tools for implementation Instructional tasks representative of each grade level Real world examples showcasing classroom photos and student work Second Handbook of Research on Mathematics Teaching and Learning Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics. The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research fi ndings might be for those outside their immediate community The Data Coach's Guide to Improving Learning for All Students Nancy Love, Katherine E. Stiles, Susan Mundry, Kathryn DiRanna, 2008-02-21 This book offers a compelling

message of hope and resolve The authors three year journey in a multiplicity of diverse underperforming high poverty schools across the nation has resulted in a treasure chest of knowledge and experiences about how to professionally develop data coaches in ways that benefit some of our most underserved students This book provides powerful resources to those who have the belief passion and desire for implementing collaborative data inquiries in schools and districts From the Foreword by Ruth S Johnson Use data as an effective tool for school change and improvement How can data coaches create a collaborative culture in which data is used continuously and effectively to improve teaching and learning The Data Coach s Guide to Improving Learning for All Students provides detailed guidance for helping schools move away from unproductive data practices and toward examining data as a catalyst for systematic and continuous improvement in instruction and student learning To help both current and aspiring data coaches facilitate school based data teams and lead teachers in collaborative inquiry the authors demonstrate a data model that has been field tested and proven to be effective in Narrowing achievement gaps between students in all content areas and grade levels Achieving strong steady gains in local and state assessments in mathematics science and reading Using data as a springboard for powerful conversations about race ethnicity class educational status gender and language differences Developing shared values and a vision for creating a high performing data informed school culture This culturally responsive resource benefits staff developers teachers and administrators interested in creating change through effective data practices and includes a CD ROM keyed to the book with templates handouts PowerPoint slides resources and sample goals and agendas **Demystifying MTSS** Matt Navo, Amy Williams, 2022-07-05 Demystifying MTSS distills all the complex elements of multitiered system of supports into a customizable framework built around four components collaborative leadership universal access a continuum of tiered supports and data based decision making Drawing from research and their experience in building and sustaining effective MTSS the authors share high leverage practical actions school improvement teams can take to ensure all students diverse needs are met School improvement teams will Examine the four components of the MTSS framework and how they integrate to form a cohesive approach Discover how to design and implement high quality MTSS throughout your school and district Learn how to build optimal building and district level teams that move beyond traditional leadership roles to include a variety of practitioners Explore how to most effectively engage in cycles of continuous improvement as collaborative teams to ensure learning for all Receive reproducible tools and templates to develop and evaluate MTSS systems Contents Introduction Chapter 1 A Comprehensive MTSS Model Chapter 2 Collaborative Leadership Chapter 3 Universal Access Chapter 4 A Continuum of Tiered Supports Chapter 5 Data Based Decision Making Chapter 6 Continuous Improvement for Sustaining MTSS Epilogue Toward a Cohesive Approach Appendix Reproducibles References and Resources Index A Mind for Mathematics Nanci N. Smith, 2016-10-25 What does it take to be a good mathematics teacher who actively engages students and addresses learning differences Gain a mental picture of an effective mathematics learning environment and why it must be founded on growth mindset principles This easy to read text breaks down the complex components of mathematics teaching and divides them into practical strategies Combining mathematics research useful tactics and examples from K 6 classrooms the book includes reflection questions action tasks and activities to inspire and engage mathematical minds Benefits LEARN HOW TO USE DIFFERENT TYPES OF ASSESSMENTS to advance student learning and inform mathematics instruction OBSERVE SPECIFIC CLASSROOM EXAMPLES and vignettes that illustrate the mathematical concepts covered in each chapter LEARN THE CHARACTERISTICS OF HIGH QUALITY RIGOROUS TASKS that engage students in learning mathematics GET ADVICE ON BALANCING TEACHING RESPONSIBILITIES and making sound plans for teaching mathematics including communicating with students families INFLUENCE STUDENTS TO WORK HARD grapple with challenging problems and ultimately value mathematics Contents About the Author Introduction Creating the Mathematical Environment Engaging Mathematical Minds Reaching Different Mathematical Minds Challenging Student Mathematicians Monitoring Mathematical Assessment Balancing It All References and Resources Index **Mathematics for Life and** Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England OECD,2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country's policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education **Resources in Education** ,2000-04 **Lifestyle Math Your Financial** Planning Portfolio Mindy Bingham, Jo Willhite, Shirley Myers, 1994-04 **Educational Coaching** Cathy A. Toll, 2018-03-22 Educational coaches whether math literacy instructional or curriculum coaches vary in the content of the work they do and in the grade range of the teachers with whom they work But good coaching is good coaching as coaching expert Cathy A Toll affirms in this her newest book All coaches seek to help solve problems and increase teacher success and they all depend on effective collaboration to do so This practical guide shows readers how to get the most out of educational coaching It details Models of coaching that enhance teachers thinking help them overcome obstacles to success and lead to lasting change Three phases of the problem solving cycle Characteristics of effective coaching conversations Components of CAT connectedness acceptance and trustworthiness that are essential to the partnership Practices that support teamwork Toll also tackles the obstacles that hinder a coach s success administrators who don't understand coaching and teachers who don t want to engage Full of insights and answers Educational Coaching is for all coaches and those who lead them

**Community Organizing Guide**, Educating for Humanity Neil Tucker, 2025-03-11 This book explores the international landscape of educational scholarship policy and practice Tucker argues there is a fundamental aim for world

education It is to educate complete human beings in all their dimensions such that they become the best persons they can be and participate fully in the human story Tucker asks What is the world of education for What is it that early childhood centers schools and local communities are meant to do for children and their learning Representing a decade of research the text examines the most common concepts of the purposes of education human nature and learning offered by scholars international authorities and pedagogies nations education organizations neuroscience early childhood educators and individual schools To educate for humanity Tucker provides a complete concept of holistic education of whole child and holistic learning for a whole world The book is an essential resource for those involved in the world of education teachers university administrators school authorities policy makers and educational organizations Parents and community members with a strong interest in the education of all children will also find much that is informative and challenging to think about

Leading Lesson Study Jennifer Stepanek, Gary Appel, Melinda Leong, Michelle Turner Mangan, Mark Mitchell, 2006-12-20 Provides readers with a compelling rationale for the process offers experience tested tools and suggests ways to address commonly occurring challenges This book will assist teachers and those who support them in understanding and implementing all phases of lesson study from initial planning through sharing with others what was learned Dennis Sparks Executive Director National Staff Development Council A powerful teacher professional development process that focuses collaborative teams directly on the classroom and the perfect tool for teachers professional developers and team leaders Gives you everything you need to use lesson study to support teachers in thinking deeply about practice Roberta Jaffe Science Education Coordinator New Teacher Center University of California Santa Cruz Use this team centered approach to directly enhance teaching and learning in your school First introduced in Japan lesson study has gained enthusiastic advocates in US educational circles as a powerful collaborative approach that brings teachers together as researchers into the science and craft of teaching and learning in their classrooms Teachers work as teams to develop a lesson plan teach and observe the lesson to collect data on student learning and use their observations to refine their lesson Participants build their sense of professional authority while discovering effective practices that result in improved learning outcomes for their students This how to guide provides teachers administrators and team leaders with practical strategies models and tools The book leads a beginning team through the phases of the lesson study cycle and provides an experienced team with new perspectives Using examples from U S classrooms this handbook Encourages educators to generate and share knowledge Inspires a teacher researcher stance Illustrates both the process and substance of lesson study Encourages collaboration Provides guidelines for avoiding common pitfalls Leading Lesson Study is an excellent resource for both experienced and novice lesson study teams administrators who want to start a lesson study program and lesson study team facilitators such as National Science Foundation authorization United States. instructional coaches and professional development providers Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and

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#### **Sample Action Plan For Mathematics Introduction**

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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and using webb s depth of knowledge to increase rigor edutopia - Nov 06 2022

web sep 4 2014 dok levels are also not developmental all students including the youngest preschoolers are capable of strategic and extended thinking tasks what they look like will differ and what is level 3 to a kindergarten student may be a level 1 task for a middle schooler all students however should have opportunities to do complex reasoning

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web dok 3 3 lafs 3 rl 1 2 recount stories including fables folktales and myths from diverse cultures determine the central message lesson or moral and explain how it is conveyed through key details in the text dok 2 4 lafs 4 rl 1 2 determine a theme of a story drama or poem from details in the text summarize the text dok 3  $\frac{1}{2}$  depth of knowledge questions math evelynlearning com - Jul 14 2023

web jan 13 2020  $\,$  3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of f x 5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web i ve decided to expand upon my previous depth of knowledge matrix that helped make it easier to distinguish between depth of knowledge levels in mathematics while it is still useful it didn t cover every grade level and may be too broad in scope so i have made two new depth of knowledge matrices one for elementary mathematics and one for depth of knowledge dok for writing edulastic blog - Feb 26 2022

web sep 21 2015 writing allows us to assess the higher level thinking skills that are central to level 4 argumentative writing and prompts that ask students to synthesize information from multiple sources or works are great ways to get at level 4 dok skills in multi paragraph work students demonstrate synthesis and analysis of complex ideas or themes depth of knowledge in the english language arts classroom - Apr 30 2022

web dok 3 use information or conceptual knowledge two or more steps etc students have practiced these skills with assistance from kindergarten to second grade and on their own since third grade questions that lie at dok 1 necessitate only memorization and recall and so do not promote

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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web aug 8 2022 level 1 dok despite a question s simplicity you can still provide your class with many activities having them finish a range of products depending on the question s purpose students can paraphrase a passage or chapter of a book outline and re iterate the main points of a recent lesson

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web dok 1 recall and reproduce dok 2 basic application of skills and concepts dok 3 strategic reasoning dok 4 extended reasoning the questions you can ask in each strand are easy to

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web description this circular poster is based on webb s depth of knowledge which provides a vocabulary and a frame of reference when thinking about our students and how they engage with the content dok offers a common language to understand rigor or cognitive demand in assessments as well as curricular units lessons and tasks

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web apr 19 2019 they soon discovered that there weren t very many dok 4 questions those are really high level tasks some of them needed hints they noticed that there weren t any dok level 3 questions in kindergarten a lot of them had trouble deciding if the questions was a 2 or a 3

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web dec 3 2019 each column explores one of eight topics rounding adding 3 digit numbers subtracting 3 digit numbers multiplying multiples of ten fractions on a number line multiplying and dividing within 100 operations with time and area and perimeter you ll notice that the first problem in the column is traditional and familiar

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web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

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web dok level 3 requires higher cognitive demands than the previous levels students explain justify thinking and provide supporting evidence for reasoning or conclusions drawn level 3 tasks typically require reasoning complexity developing a plan or sequence of steps and have more than one possible response or solution

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web 1 how will you plan to use this in your classroom during whole group or small group instruction and why 2 when do you

see the need to use dok question level 3 and dok question level 4 in your classroom 3 looking at your content and standard s objectives create 3 4 questions using dok level 3 and dok level 4

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