#### SEMI-DETAILED LESSON PLAN

School	Cotabato City National High School - Main Campus	Grade Level 9	
Teacher	Sir Habib M. Atong	Learning Area	Mathematics
Teaching Date and Time	December 2022 & 2 hours	Quarter 2nd	
OBJECTIVES			**************************************
A. Content Standard	The learner demonstrates understanding of key concepts of variation and radicals, .		
B. Performance Standard	The learner is able to formulate and solve accurately problems involving radicals.		
C. Learning Competencies	The learner illustrates situations that involve the direct variation. (M9AL-IIa-1)		
D. Objectives	<ul> <li>a. Given a situation, the ninth grade students will verbally define direct variation and write an equation with at least 90% of accuracy;</li> <li>b. Given an example, the ninth grade students will be able to illustrate situations that involve direct variation with 85% of accuracy;</li> <li>c. Given a table values, mathematical equation, and a graph the ninth grade will be able to solve problems involving direct variations with 95% of accuracy.</li> </ul>		
CONTENT	Variations		
A. Topic	Direct Variation		
B. Pre-requisite			
LEARNING     RESOURCES	Teacher's Guide (Mathematics 9), Learner's Materials,		
A. References			
Teacher's Guide pages	Mathematics – Grade 9		
2. Learner's Materials pages	P194-p204		
3. Textbooks pages	MATHEMATICS: Learning Material 9		
Additional Material from Learning Resources (LR) portal	Manila paper/Cartolina     Mariser     Tape     Bond paper     Mobile phone		

# **Lesson Plan For Grade 9 Mathematics**

Carl A. Grant, Christine E. Sleeter

#### **Lesson Plan For Grade 9 Mathematics:**

The Mathematics Lesson-Planning Handbook, Grades K-2 Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education Your blueprint to planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning s lesson plan Or maybe you feel it isn t tailored enough for your students needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students The Mathematics Lesson-Planning Handbook, Grades 6-8 Lois A. Williams, Beth McCord Kobett, Ruth Harbin Miles, 2018-12-28 Your blueprint to planning Grades 6 8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6 8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning

needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6 8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners The Mathematics Lesson-Planning Handbook, Grades 3-5 Ruth Harbin Miles, Beth McCord Kobett, Lois A. Williams, 2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education YOU are the architect in the mathematics classroom When it comes to mathematics lessons do you sometimes feel overly beholden to the required texts from which you teach Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do How often do you find yourself in the last minute online scramble for a great task activity that will capture your students interest and align to your state standards In The Mathematics Lesson Planning Handbook Grades 3 5 Your Blueprint for Building Cohesive Lessons you ll learn the streamlined decision making processes that will help you plan the focused research based standards aligned lessons your students need This daily reference offers practical guidance for when and how to pull together mathematics routines resources and effective teaching techniques into a coherent and manageable set of lesson plans This resource will Lead teachers through a process of lesson planning based on various learning objectives Set the stage for lesson planning using relatable vignettes Offer sample lesson plans for Grades 3 5 Create opportunities to reflect on each component of a mathematics lesson Suggest next steps for building a unit from the lessons Provide teachers the space and tools to create their own lesson plans going forward Based on years of classroom experience from seasoned mathematics educators this book brings together the just in time resources and practical advice you need to make lesson planning simple practical and doable From laying a solid foundation to choosing the right materials you ll feel confident structuring lessons that lead to high student achievement Resources in Education ,1998 Teaching Secondary and Middle School Mathematics Daniel

J. Brahier, 2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM s just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions with additional references to both documents throughout all chapters A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers Classroom Dialogues features draws on the author s 35 year experience as an educator to present real world teacher student conversations about specific mathematical problems or ideas How Would You React features prepares future teachers for real life scenarios by engaging them in common classroom situations and offering tried and true solutions With more than 60 practical classroom tested teaching ideas sample lesson and activities Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics **Enhancing Student Learning in Middle School** Martha Casas, 2010-09-13 A comprehensive introduction to middle school teaching this textbook focuses explicitly on instructional strategies that encourage adolescents to become active participants in their own learning within a world of accountability and standardized testing The author an experienced middle school teacher and teacher educator takes a constructivist approach to teaching that considers the whole child including the emotional psychological social and cultural variables uniquely associated with adolescence The text examines the full range of middle school topics from the development and diversity of middle school learners to the structures curriculum and management of the classroom itself Special features include Empowering Middle School Students to Take Ownership of their Learning Teaching Scenario Key Points and Creating an Anti Oppressive Atmosphere in Your Classroom textboxes help teachers gain a clearer understanding of content presented and encourage them to become reflective practitioners Callouts throughout explicitly link chapter content to NMSA standards Discussion of the unique challenges of actively engaging bilingual students special needs

students and students exhibiting antisocial behavior Accounts about middle school students illustrate the ways adolescents think about school and learning A chapter that focuses on ways teachers can apply the general teaching strategies to specific subject areas Sample Lesson Plans Focus Questions Chapter Summaries Journal Entries and Student Activities Assignments are included throughout to encourage readers to actively participate with the text ENC Focus, 2001 Zoology Parent Lesson Plan ,2013-10-01 This Elementary Zoology Curriculum Guide contains materials for use with The World of Animals Dinosaur Activity Book The Complete Aguarium Adventure and The Complete Zoo Adventure Lesson Planner Weekly Lesson Schedule Student Worksheets Quizzes Test Answer Key 4th 6th grade 1 Year Science 1 2 Credit Features Each suggested weekly schedule has three easy to manage lessons which combine reading worksheets and vocabulary building opportunities including an expanded glossary for each book Designed to allow your student to be independent materials in this resource are divided by section so you can remove quizzes tests and answer keys before beginning the coursework As always you are encouraged to adjust the schedule and materials as you need to in order to best work within your educational program Workflow Students will read the pages in their book and then complete each section of the study guide worksheets Tests are given at regular intervals with space to record each grade Younger students may be given the option of taking open book tests Lesson Scheduling Space is given for assignment dates There is flexibility in scheduling For example the parent may opt for a M W schedule rather than a M W F schedule Each week listed has five days but due to vacations the school work week may not be M F Please adapt the days to your school schedule As the student Survey of Astronomy Parent Lesson Plan ,2013-10-01 completes each assignment he she should put an X in the box Course Description Taking Back Astronomy Take a breathtaking look at the universe in this comprehensive guide to the heavens Sit back and explore the world at your fingertips This book explains the scale and size of the universe that is hard for our minds to imagine yet can only indicate the Master's hand at work Marvel at over 50 full color rarely seen photos of stars nebulas and galaxies Study the facts that challenge secular theories and models of the universe how it began and how it continues to amaze the scientific community Explore numerous evidences that point to a young universe magnetic poles of planets the spiral shape of galaxies comets and how long scientists think they can last and much more Step out among the stars and experience the truly awesome power of God through this glimpse of His vast creation Our Created Moon For eons the moon has intrigued humanity From its creation through the current issues of space exploration the moon has been both a light in the night and a protective shield of earth placed perfectly by God regulating our seasons and keeping our atmosphere purified Billions of dollars have been spent to reach its surface and discover its secrets open these pages and discover those secrets for yourself The Stargazer's Guide to the Night Sky Explore the night sky identify stars constellations and even planets Stargaze with a telescope binoculars or even your naked eye Allow Dr Jason Lisle a research scientist with a masters and PhD in astrophysics to guide you in examining the beauty of God's Creation with 150 full color star charts Learn the best

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intrigued explorers and scientists for centuries A better understanding of our oceans ensures careful conservation of their grandeur and beauty for future generations and lead to a deeper respect for the delicate balance of life on planet Earth Semester 2 Ecology Study the relationship between living organisms and our place in God's wondrous creation Learn important words and concepts from different habitats around the world to mutual symbiosis as a product of the relational character of God This is a powerful biology focused course specially designed for multi age teaching Students will Study the intricate relationship between living organisms and our place in God's wondrous creation Examine important words and concepts from different habitats around the world to our stewardship of the world's resources Gain insight into influential scientists and their work More fully understand practical aspects of stewardship Investigate ecological interactions and connections in creation The Ecology Book encourages an understanding of a world designed not as a series of random evolutionary accidents but instead as a wondrous well designed system of life around the globe created to enrich and support its different features Activities provide additional ways to make the learning experience practical **Mathematics and** Turning on Learning Carl A. Grant, Christine E. Sleeter, 2008-10-28 With a Science Across the Curriculum ,2002 wealth of ready to use lesson plans for grade levels K 12 covering a variety of subject areas Turning on Learning Fifth Edition shows students how to apply the principles of multicultural education in the classroom This practical lesson based companion to Sleeter and Grant's Making Choices for Multicultural Education Five Approaches to Race Class and Gender features additional lesson plans and new resource material along with updates of existing lesson plans The Best Web Sites for **Teachers** Vicki F. Sharp, Martin G. Levine, Richard M. Sharp, 2002 Intro to Meteorology & Astronomy Parent Lesson Planner, 2013-08-01 Introduction to Meteorology and Astronomy Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Meteorology The Earth was created to be the dwelling place of man It is a complex world and its weather patterns affect our lives every day Whether you live near the equator a polar region or somewhere in between knowledge of the weather is important The Weather Book will teach you why our exact distance from the sun allows life on earth how the weather on the other side of the earth affects you how clouds form and how to identify the different types what the difference is between a cold and warm front why you can often see lightning long before you can hear thunder how to build your own weather station how to survive in dangerous weather what the greenhouse effect and the ozone hole are what Noah s flood and the Ice Age have in common how weatherpersons forecast hurricanes and tornadoes how to read a weather map and what our responsibility is to the environment Learning about the weather is fun It will change the way you look at the clouds in the sky Now you ll have more of an understanding about what is going on miles above your head And when you hear a weather report on television you will understand so much more about the world around you Semester 2 Astronomy One thing we have

in common with the ancients is that all of the human race has gazed at the night sky and the bright morning and wondered What s out there Our universe is so vast and awe inspiring that to learn about it is to learn about ourselves The Astronomy Book will teach you what long ago astronomers thought about other worlds solar system facts how constellations relate to astrology the history of space exploration black holes do they exist the origin and age of the moon why Mars doesn't support life the composition of stars supernova remnants and the myth of star birth asteroid legends and the extinction of the dinosaurs are there planets outside our solar system and could they be home to intelligent life what are UFOs and the age of comets and meteor showers Learning about the universe is huge fun In the almost infinite expanse above us we can examine planets galaxies and phenomena so beautiful and complex that we never outgrow a childlike wonder We see our own reflection in the moon the stars and in comet trails The more we learn the less we fear **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 Concepts of Earth Science & Chemistry Parent Lesson Plan John Hudson Tiner, 2013-08-26 Concepts of Earth and Chemistry Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Earth Blending a creationism perspective of history with definitions of terms and identification of famous explorers scientists etc this book gives students an excellent initial knowledge of people and places encouraging them to continue their studies in depth Semester 2 Chemistry Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no

televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information

1992 Census of Agriculture ,1994 1992 Census Of Agriculture, AC92-S-4, Volume 2, Subject Series, Part 4, History Science Starters: Elementary Physical & Earth Sciences Parent Lesson Plan ,2013-08-01 Science Starters Physical .1996 and Earth Science Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Physical Science Investigate the Possibilities Elementary Physical Science Forces Motion From High speed Jets to Wind up Toys Elementary physical science comes alive in this amazing full color book filled with 20 hands on activites that ignite a sense of curiosity about the wonderful world God has made Concepts are introduced in an engaging way by highlighting the science behind kids at play like rollerskating skateboarding and even running By guiding students through these easy to understand investigations they learn to explain apply expand and assess what they have personally observed Learn how to determine the speed and motion of favorite toys create a catapult and experience the mechanics of pulleys set up a floating pencil race discover why friction creates heat Semester 2 Earth Science Investigate the Possibilities Elementary Earth Science The Earth Its Structure Its Changes Experience the science of fun Explore the planet like never before with 20 fun and educational experiments The learning progression helps students engage investigate explain apply expand and assess the scientific principles and is filled with helpful images diagrams and inexpensive activities Students discover why caves and sinkholes form what is in the soil we walk on every day how warning signs are present prior to volcanic eruptions what tests can be used to identify rocks and more This comprehensive series makes the study of God's creation both enjoyable and educational

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