

Subtraction Lesson Plan 1st Grade

**Jennifer Stepanek, Melinda
Leong, Linda Griffin, Lisa Lavelle**



Subtraction Lesson Plan 1st Grade:

Lesson Study Clea Fernandez, Makoto Yoshida, 2012-09-10 Lesson study is a popular professional development approach in Japan whereby teachers collaborate to study content instruction and how students solve problems and reach for understanding in order to improve elementary mathematics instruction and learning in the classroom This book is the first comprehensive look at the system and process of lesson study in Japan It describes in detail the process of how teachers conducted lesson study how they collaborated in order to develop a lesson what they talked about during the process and what they looked at in order to understand deeply how students were learning Readers see the planning of a mathematics lesson as well as how much content knowledge the teachers have They observe students problem solving strategies and learn how Japanese teachers prepare themselves to identify those strategies and facilitate the students discussion Written for mathematics teachers educational researchers school administrators interested in teachers professional development and professional developers this landmark volume provides an in depth understanding of lesson study that can lead to positive changes in teachers professional development and in teaching and learning in the United States

Teaching by Design in Elementary Mathematics, Grades K-1 Jennifer Stepanek, Melinda Leong, Linda Griffin, Lisa Lavelle, 2010-11-16 Strengthen your mathematics lessons through collaborative planning Teaching by Design in Elementary Mathematics is a series of comprehensive professional development guides that help teachers investigate how students learn Grounded in the latest research this book is one of three volumes focused on grade appropriate number and operations topics aligned with the Common Core State Standards The capstone activity of each book guides the group through the co creation and implementation of a prototype lesson The teacher teams then evaluate the impact of the lesson on student learning and work together to revise it for maximum effectiveness Through the process teachers develop Deeper content knowledge of important mathematical concepts Improved understanding of how students learn these mathematical ideas A stronger foundation for developing effective lessons and improving instruction Enhanced collaboration skills Each volume includes a large assortment of reproducible handouts as well as built in facilitation notes Teachers will also find helpful resources that address the issue of finding time for school based professional development and teacher collaboration

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

International Index to Periodicals ,1929 An author and subject index to publications in fields of anthropology archaeology and classical studies economics folklore geography history language and literature music philosophy political science religion and theology sociology and theatre arts

Normal Instructor and Primary Plans ,1926 Teaching First Grade Min Hong,2001-07 A mentor teacher shares insights strategies and lessons for teaching reading writing and math and laying the foundation for learning success

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

Implementing a 21st Century

Competency-Based Curriculum Through Lesson Study Eric C.K. Cheng, Bruce Lander, 2024-03-12 Drawing from a comprehensive collection of university funded teaching development projects this edited volume explores the theories and practices behind developing pedagogies through Lesson Study for a 21st century curriculum It encompasses various aspects such as lesson observation assessment literacy online teaching pedagogy values education STEM education language education and mathematics education The chapters investigate the application of Lesson Study in diverse contexts highlighting its use in ICT based teaching and learning environments the development and refinement of e pedagogies as well as the integration of AI in education Through these cases the content demonstrates how Lesson Study empowers teachers to craft pedagogies that enhance student learning while emphasizing its pivotal role as an innovative approach to address the evolving landscape of education in this digital era

Implementing a 21st Century Competency Based Curriculum Through Lesson Study is the first to address the academic discussion of using Lesson Study to develop pedagogies for effective curriculum implementation to tackle the impact of Industry 4 0 on school education It offers valuable insights reflections and practical guidance to policy makers school leaders teacher educators and teachers who are dedicated to enhancing student learning and nurturing the essential skills required for success in the 21st century

Planning and Analyzing Teaching Angelika Kullberg, Åke Ingerman, Ference Marton, 2024-01-24 Using illustrative teaching case studies this book demonstrates how teaching informed by a learning theory specifically Variation theory can equip teachers to facilitate possibilities for students learning in effective and powerful ways For a long period of time teaching has been black boxed in favour of other explanations of why students learn or not such as motivation and social interaction A large amount of research on teaching and learning not the least made using Variation theory has shown that students often need to experience the same aspects of the focused content or capability in order to learn indicating that relationships between teaching and learning are not unique or even qualitatively different for every individual and every situation This perspective on the relationship between teaching and learning emphasizes content specific aspects and in that sense structural

components of teaching while other aspects of schooling such as social interaction and general well being recede into the background The authors argue for the importance of this in the direct development of teachers independent collective professional knowledge about teaching and the leverage this gives for developing student learning They introduce theoretical tools to help teachers to increase the probability that teaching focusing a specific content or capability is predictive of students learning of that specific content or capability while decreasing contextual dependency without assuming that teaching and learning have a one to one relationship Intended for teachers graduate students in education teacher educators student teachers and researchers this book shows that while there is no simple equation between teaching and learning there are general though content specific aspects of teaching that can be systematically planned and analyzed and used to improve the quality of student learning The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

Teaching Math Through Storytelling Gigi Carunungan, Making math accessible to young learners is especially challenging This hands on book provides a method for teaching math with fun stories that allow students to experience math concepts in real world contexts Teachers can choose from a selection of suggested stories or they can create their own to reflect the interests and identities of their students This lively resource includes math learning activities and creative simulations that make math concepts come alive guidance for incorporating intercultural scenarios and stories to foster inclusivity teaching strategies and lesson designs grounded in research a focus on transforming traditional math teaching into an approach that enhances critical thinking and problem solving skills and detailed lesson plans for integrating innovative approaches into existing curricula Teachers K 5 can use this book to move away from memorizing and rote activities into dynamic learning experiences that make math learning fun Book Features Uses engaging interactive storytelling to help young learners develop a deeper understanding of mathematical principles Incorporates intercultural scenarios and stories so students see themselves in the lessons fostering a more inclusive and relatable learning environment Provides teaching strategies and lesson designs drawn from academic sources and field studies to provide educators with reliable and effective methods Provides detailed lesson plans that demonstrate innovative and effective ways for children to overcome math anxiety and integrate math into everyday thinking

Reader's Guide to Periodical Literature

Supplement ,1925 Oregon Teachers Monthly ,1916 Mathematics Unit Planning in a PLC at Work®, Grades 3--5

Sarah Schuhl,Timothy D. Kanold,Jennifer Deinhart,Matthew R. Larson,Mona Toncheff,2020-03-24 Build collaborative teacher teams committed to fostering student self efficacy and increasing achievement in mathematics Part of the Every Student Can Learn Mathematics series this practical resource provides a framework for collectively planning a unit of study in grades 3 5 Grade level teams will learn how to work together to perform key tasks from unwrapping standards and creating team unit calendars to determining academic vocabulary and designing robust fraction units Help your team identify what students

need to know by the end of each unit and build student self efficacy Understand how to collaboratively plan thematic units in grades 3 5 Study the seven unit planning elements and learn how to incorporate each in essential unit design Review the role of the PLC at Work process in enhancing collaborative student learning and teacher collaboration Observe three model fraction units one for each grade level Receive tools and templates for effective unit planning Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in Grades 3 5 Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Fraction Unit Examples Grades 3 5 Chapter 3 Grade 3 Unit Fraction Understanding Chapter 4 Grade 4 Unit Fraction Equivalence Addition and Subtraction Chapter 5 Grade 5 Unit Fraction Addition and Subtraction Epilogue Mathematics Team Organization Appendix A Create a Proficiency Map Appendix B Checklist and Questions for Mathematics Unit Planning References and Resources

Lesson Study Bill Cerbin, 2023-07-03 Why do students stumble over certain concepts and ideas such as attributing causality to correlation revert to former misconceptions even after successfully completing a course such as physics students continuing to believe an object tossed straight into the air continues to have a force propelling it upward or get confused about terminology such as conflating negative reinforcement with punishment This is the first book about lesson study for higher education Based on the idea that the best setting in which to examine teaching is where it takes place on a daily basis the lecture hall seminar room studio lab and the online classroom management system lesson study involves several instructors jointly designing teaching studying and refining an individual class lesson in order to explore student learning problems observe how students learn and analyze how their instruction affects student learning and thinking The primary purpose is to help teachers better understand how to support student learning and thinking By observing how students learn through lesson study teachers can improve their own teaching and build knowledge that can be used by other teachers to improve their practice Lesson study grew out of the collective efforts of classroom teachers in Asia most notably in Japan to improve their teaching Subsequently imported tested and implemented by a group of instructors of biology economics English and psychology at the University of Wisconsin La Crosse the process proved so valuable that the university has since established the College Lesson Study Project of which the author of this book is Director Focusing on a single lesson enables participants to examine in detail every step of the teaching process from vision and goals to instructional design to implementation to observation and analysis of student performance and then evidence based improvement It enables faculty to explore learning problems that matter most to them learn alternative ways to teach from one another and co design new course materials This book introduces lesson study practices to college teachers providing the necessary guidance tools examples models and ideas to enable teachers to undertake lesson study in their own classes It also explores the underlying rationale for lesson study practices and how to realize the full potential of lesson study to advance teaching and learning A Joint Publication with the National Teaching and Learning Forum An ACPA NASPA Joint Publication *The ChatGPT*

Teaching Assistant Teachmehowtodothat,2023-04-21 Save Time Work Smarter Transform your Teaching Welcome to the AI Teaching Assistant This e book aims to provide educators with the knowledge and skills necessary to harness the benefits of artificial intelligence AI in the classroom specifically focusing on the ChatGPT language model developed by OpenAI As AI continues to reshape various industries including education it is essential for educators to stay updated and leverage these advancements to enhance teaching and learning experiences Throughout the 25 page book or rather guide you will explore practical strategies for using ChatGPT in various aspects of your teaching practice including lesson planning resource development student engagement assessment and language learning You will find Discover dozens of easy to use prompts and nearly 100 use cases with ChatGPT AI in this ultimate guide for educators With ChatGPT generating learning objectives developing classroom resources and enhancing student engagement and assessment is easy and intuitive Promote creativity critical thinking and collaboration in the classroom with ChatGPT s advanced capabilities for personalized feedback peer review and language learning materials Explore the applications of ChatGPT for collaborative storytelling and generating discussion topics Join the AI revolution in education and unlock the limitless potential of ChatGPT to enhance your teaching and save you time 6 Modules Each module in this e book will provide you with an in depth understanding of how to effectively integrate ChatGPT into your classroom Module 1 ChatGPT for Lesson Planning Learn to generate learning objectives create lesson plans and customize content using ChatGPT Module 2 ChatGPT for Classroom Resources Discover how to generate worksheets and exercises for diverse student needs Module 3 ChatGPT for Engagement and Assessment Use ChatGPT for personalized feedback grading online discussions and peer review to engage students Module 4 ChatGPT for Language Learning Develop vocabulary lists grammar exercises and proficiency level materials with ChatGPT Module 5 ChatGPT Applications in Teaching Explore ChatGPT s applications in teaching and the classroom including collaborative storytelling and generating discussion topics to promote critical thinking collaboration and participation 67 Applications of ChatGPT in Teaching ChatGPT can assist teachers during class aid studying and improve reading writing and comprehension skills It can also generate discussion topics facilitate collaborative story creation and assist with writing assignments By the end of this guide you will have a deep understanding of how to effectively integrate ChatGPT into your teaching practice enabling you to create dynamic and engaging learning experiences for your students You can copy the prompts into ChatGPT to generate the products that you want We hope that this e book will inspire you to embrace the power of AI and become a part of the exciting future of education technology Let s embark on this learning journey together and unlock the potential of AI in education

Mathematics Unit Planning in a PLC at Work®, Grades PreK-2 Sarah Schuhl,Timothy D. Kanold,Jennifer Deinhart,Nathan D. Lang-Raad,Matthew R. Larson,Nanci N. Smith,2020-08-28 Bring a laser like focus to the mathematics content your students need to learn throughout the year Written by trusted mathematics experts this resource helps PreK 2 teachers fully answer PLC critical question one what do we want all students to know and be able to do Read the book as a

team to acquire detailed model mathematics units learn how to perform seven collaborative tasks and more Use this resource to increase mathematics achievement and provide students with a more equitable learning experience Understand how to collaboratively plan curriculum units in grades preK 2 Study the seven unit planning elements and learn how to incorporate each in unit designs for early childhood education Review the role of the PLC at Work process in enhancing student learning and teacher collaboration Observe four model units related to the foundations of addition and subtraction one for each grade level Receive tools and templates for effective unit planning in a professional learning community PLC Contents Introduction by Timothy D Kanold Part 1 Mathematics Unit Planning and Design Elements Chapter 1 Planning for Student Learning of Mathematics in Grades PreK 2 Chapter 2 Unit Planning as a Collaborative Mathematics Team Part 2 Foundations of Addition and Subtraction Unit Examples Grades PreK 2 Chapter 3 PreK Unit Counting and Cardinality Chapter 4 Kindergarten Unit Addition and Subtraction to 10 Chapter 5 Grade 1 Unit Addition and Subtraction to 20 Chapter 6 Grade 2 Unit Multidigit Addition and Subtraction Epilogue Mathematics Team Organization Appendix A Create a Proficiency Map Appendix B Team Checklist and Questions for Mathematics Unit Planning References and Resources Index

Advances in the Anthropological Theory of the Didactic Yves Chevallard, Berta Barquero, Marianna Bosch, Ignasi Florensa, Josep Gascón, Pedro Nicolás, Noemí Ruiz-Munzón, 2022-01-22 The book focuses on the latest developments of the Anthropological Theory of the Didactic ATD and its links with other approaches in mathematics education Leading researchers in the ATD and especially its creator Yves Chevallard present recent research results theoretical advances and new methodologies in this approach concerning critical educational problems at all levels The book is addressed to researchers in mathematics education and all related fields to teacher educators and teachers in primary secondary and tertiary education interested in curriculum issues and research in didactics The book includes four sections that correspond to four axes of current research in the framework of the ATD The first one studies the relations between the ATD and other research frameworks The second section focuses on the crucial role of didactics in teacher education and the experiences carried out at different instructional levels The third section addresses the curriculum problem in the historical transition from the classical paradigm of visiting works to the emerging didactic paradigm of questioning the world The last section is about research in didactics at the university level with investigations about the analysis of didactic transposition processes and the design and implementation of various instructional formats

Principles and Methods of Teaching Arithmetic James Robert Overman, 1920 **Studying Classroom Teaching as a Medium for Professional Development** National Research Council, Policy and Global Affairs, Board on International Scientific Organizations, U.S. National Commission on Mathematics Instruction, Division of Behavioral and Social Sciences and Education, Center for Education, Mathematical Sciences Education Board, 2002-08-09 The Mathematical Sciences Education Board MSEB and the U S National Commission on Mathematics Instruction USNCMI took advantage of a unique opportunity to bring educators together In August 2000 following the Ninth International Congress on Mathematics

Education ICME 9 in Makuhari Japan MSEB and USNCMI capitalized on the presence of mathematics educators in attendance from the United States and Japan by holding a two and a half day workshop on the professional development of mathematics teachers This workshop used the expertise of the participants from the two countries to develop a better more flexible and more useful understanding of the knowledge that is needed to teach well and how to help teachers to obtain this knowledge A major focus of the workshop was to discuss teachers opportunities in both societies using teaching practice as a medium for professional development Another focus of the workshop addressed practice by considering the records of teaching including videos of classroom lessons and cases describing teachers and their work These proceedings reflect the activities and discussion of the workshop using both print and video to enable others to share in their experience **First Steps in Teaching Number** John Roscoe Clark, Arthur Sinton Otis, Caroline Hatton, 1929

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