

## DII Thinking – Cognitive Planning Template

Teacher: \_\_\_\_\_ Date: \_\_\_\_\_ Subject: \_\_\_\_\_

|                                       |
|---------------------------------------|
| <b>Standard:</b>                      |
| <b>Lesson Objective:</b>              |
| <b>Connecting to Prior Knowledge:</b> |

| Objective           | Teacher                                                                                                                                                                                             | Student Engagement                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input and Model     | <u>Input:</u><br>Academic Vocabulary (AV) – (posted)<br><br>Process/Steps: (posted)<br><br>-----<br><u>Model:</u> (introduce process/steps)                                                         | Students will participate with <b>choral/echo response</b> of meanings of Academic Vocabulary, steps/process<br><br>Students will use <b>gestures (TPR)</b> to distinguish definitions of AV<br><br>Students will <b>listen and watch</b> teacher “think aloud.” |
| Structured Practice |                                                                                                                                                                                                     | Students will actively participate ( <b>echo/choral read</b> ) in completing problems with teacher<br><br>Think-Pair-Share opportunities, <b>equity cards/sticks</b><br><br>Respond using sentence frame:                                                        |
| Guided Practice     | <small>*Reminds students of expectations (use academic language/steps), walks around providing immediate feedback, correctives. Afterwards, Teacher has students come to explain problem(s)</small> | Students will recall process<br><br>Students will <b>work in pairs</b> and use process to complete practice problems.<br><br>Respond using sentence frame:                                                                                                       |

|                      | Teacher                                                                                              | Student Engagement                                |
|----------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Independent Practice | Monitoring<br><br>Collects for Formative Data<br><br>OR<br><br>Coaches students (immediate feedback) | Students will <b>independently</b> complete _____ |

|                          |
|--------------------------|
| <b>Standard:</b>         |
| <b>Lesson Objective:</b> |

# Sample Direct Instruction Math Lesson Plan

**Lisa M. Hagermoser Sanetti, Melissa A.  
Collier-Meek**



## **Sample Direct Instruction Math Lesson Plan:**

*Differentiating Math Instruction* William N. Bender, 2005-05-18 This exciting and unique book presents practical immediately applicable ideas for differentiating instruction in maths in the elementary classroom It explains in detail the process of differentiation in maths beginning with lesson planning through implementation of a wide variety of research proven instructional strategies and tactics The Ideas from Teachers feature located in various chapters includes instructional tactics provided by teachers that exemplify the differentiation process Also included are the To Ten Tactics lists which provide simple immediately applicable tactics that can be easily implemented in almost every classroom

**The Best of Corwin: Differentiated Instruction in Literacy, Math, and Science** Leslie Laud, 2011-09-28 Content specific DI guidance from the best minds in education The Best of Corwin series showcases key chapters from critically acclaimed Corwin publications for a powerful compilation of perspectives on important education issues and topics In this collection current research on the most effective differentiation practices for teaching students at all levels of proficiency in literacy mathematics and science is brought alive through the many strategies and classroom examples from prominent authors Topics covered include Reading and writing A comprehensive array of models for differentiating reading instruction an approach to gradual release of responsibility to accelerate progress and multi tiered writing instruction Mathematics Support for both low and high achieving students including interventions and challenges and the implementation of RTI in math instruction Science Models and methods for increasing student achievement through differentiated science inquiry From the differentiation of content to the differentiation of instructional methods to the pacing of material to meet different students needs everything you need to begin and master differentiated instruction is right here

**Differentiating Instruction for Students With Learning Disabilities** William N. Bender, 2008 Written for teachers who want to know how to differentiate instruction for students with learning difficulties the second edition of *Differentiating Instruction for Students with Learning Disabilities* draws upon the bestselling success of the first edition in explicitly showing what differentiated instruction is and how to use differentiated strategies in the classroom With more concentration on brain research multiple intelligence response to intervention RTI tiered instruction and universal design for learning UDL William N Bender provides the most comprehensive book on differentiated instruction and learning disabilities based on scientific research and with a practical teacher friendly approach An updated reference section brief Teaching Tips side bars and thought provoking new feature Reflections augment this powerful resource that educators can immediately use in the classroom with all students who have learning disabilities who are at risk and who may have learning difficulties

**Better Lesson Plans, Better Lessons** Ben Curran, 2015-09-25 In today s high stakes world ready made lessons and teacher s guides are no longer enough to guarantee achievement The best way to help students succeed is through deliberate and careful lesson planning focused on the end result of increasing student achievement Whether you are a new teacher or an experienced educator this book will help you

get started by providing a practical step by step guide to designing lessons that will lead to student mastery of any objective You ll learn the essential components of lessons that are Common Core aligned and grounded in best practices Topics include Tailoring your lessons to meet your state standards while ensuring high student achievement Writing a strong objective to stay focused on the goal of a lesson Creating an end of lesson assessment to gauge the lesson s success Constructing a lesson plan that combines direct instruction guided practice and independent practice Along the way you ll find plenty of helpful examples from math and English Language Arts You ll also find end of chapter FAQs and activities to try to help you make these concepts a reality for your own classroom Many of the tools from the book are also available as free downloads from our website [www.routledge.com/books/details/9781138838871](http://www.routledge.com/books/details/9781138838871) **Meaningful Small Groups in Math, Grades K-5**

Kimberly Rimbey, 2022-09-02 Target the Math Support the Students Provide Access for All The need for focused small group math instruction has never been greater Today s education landscape is fraught with learning divides unlike anything we ve faced in recent years We need new ways of teaching students who have remarkably varying levels of understanding and vastly different needs Meaningful Small Groups in Math Grades K 5 offers practical guidance on how to meet the diverse needs of today s students Written for K 5 classroom teachers math interventionists and instructional coaches this user friendly accessible book provides guidance on the necessary components of small group instruction in math trajectories for small group instruction on specific concepts and practical steps for getting started Readers will find Checklists and templates for implementing small group sample lessons in the major content domains Emphasis on flexible groups Intervention and extension ideas for differentiating learning A chapter devoted to developing small group programs across a school or organization Small group instruction in mathematics has not been as well developed as its counterpart in the reading world In K 5 math classrooms small group instruction has typically been reduced to learning centers and rotation stations with little emphasis on differentiated small group teacher facilitated learning To meet the needs of today s students a more focused approach is needed Differentiating Math Instruction, K-8 William N. Bender, 2013-09-10 Real time strategies for real life

results Are you struggling to balance your students learning needs with their learning styles William Bender s new edition of this teacher favorite is like no other His is the only book that takes differentiated math instruction well into the twenty first century successfully blending the best of what technology has to offer with guidelines for meeting the objectives set forth by the Common Core Every innovation in math instruction is addressed Flipping math instruction Project based learning Using Khan Academy in the classroom Educational gaming Teaching for deeper conceptual understanding **Lesson Planning with Purpose** Christy McConnell, Bradley Conrad, P. Bruce Uhrmacher, 2020 This book takes readers on a journey through many pathways to engaging and meaningful educational experiences The text first discusses Perceptive Teaching and then explores five unique approaches to lesson planning behaviorist constructivist aesthetic ecological and integrated social emotional learning Chapters end with a sample lesson that can be compared across approaches *Helping Children Learn*

*Mathematics* Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2014-10-20 The 11th Edition of *Helping Children Learn Mathematics* is designed to help those who are or will be teachers of mathematics in elementary schools help children develop understanding and proficiency with mathematics so they can solve problems This text is built around three main themes helping children make sense of mathematics incorporating practical experiences and using research to guide teaching It also integrates connections and implications from the Common Core Standards Mathematics CCSS M Getting Started with Teacher Clarity Marine Freibrun, 2021-05-25 Help elementary school students engage in the learning process and achieve their goals in the classroom with this effective proven teaching method Clear communication between students and teachers is crucial for effective learning When students understand the why and how of learning a k a teacher clarity it s so much easier for them to fully engage with the process and achieve their goals This book details the benefits that clear communication can have in elementary classroom from breaking down the basics of teacher clarity and shared learning progressions to providing classroom ready activities Plus you ll discover suggestions for effective classroom teaching practices including Deconstructing state standards to develop learning intentions and objectives Developing success criteria to support new learning Building student awareness through structured language talk Embedding self assessment checks for students to assess their levels of understanding throughout a lesson And much more Through the research based methods of teacher clarity educators will understand the importance of partnership between students and teachers which in turn fosters improved student success **Supporting Successful Interventions in Schools** Lisa M. Hagermoser Sanetti, Melissa A. Collier-Meek, 2019-01-18 Evidence based interventions benefit learners only when they are implemented fully Yet many educators struggle with successful implementation This unique book gives practitioners a research based framework for working with PreK 12 educators to support the effective delivery of academic behavioral and social emotional interventions Step by step procedures are presented for assessing existing implementation efforts and using a menu of support strategies to promote intervention fidelity In a large size format for easy photocopying the book includes 28 reproducible worksheets strategy guides and fidelity assessment tools Purchasers get access to a Web page where they can download and print the reproducible materials This book is in The Guilford Practical Intervention in the Schools Series edited by Sandra M Chafouleas Teaching Secondary Mathematics David Rock, Douglas K. Brumbaugh, Thomas J. P. Brady, 2024-02-15 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 fifth edition combines this pragmatic approach with truly innovative and integrated technology content throughout Synthesized content between the book and a comprehensive Instructor and Student Resource website offers expanded discussion of chapter topics additional examples and technological tips such as using and assessing artificial

intelligence 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 fifth edition A fully revised chapter on technological advancements in the teaching of mathematics including the use of artificial intelligence A new chapter on equity shame and anxiety in the mathematics classroom Connections to both the updated National Council of Teachers of Mathematics NCTM Focal Points and Standards 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 completely updated Instructor and Student Resource site with chapter by chapter video lessons teacher tools problem solving Q As exercises and helpful links and resources

**Effective Math Instruction** Jared Dupree, 2016-02-01 This easy to use classroom resource provides a series of lessons templates and exemplars for practical classroom application and will help teachers understand the content standards and the mathematical practice standards in order to develop meaningful mathematics lessons This book primarily focuses on teachers procedural knowledge of standards implementation as they apply the information and resources presented in this book Mathematical rigor in the classroom for students includes lessons that target conceptual knowledge procedural knowledge factual knowledge meta cognitive knowledge and the application of this knowledge in context It also includes opportunities for teachers to develop all three dimensions of rigor as it applies to the Common Core

**Math Workshop in Action** Nicki Newton, 2015-07-03 Find out how Math Workshops engage students and increase learning This practical book from bestselling author Dr Nicki Newton explains why Math Workshops are effective and gives you step by step instructions for implementing and managing your own workshop You ll find out how to create a math rich environment use anchor charts effectively manage the workshop begin a workshop with activities lead whole group mini lessons make workstations meaningful and engaging create guided math groups implement the Share effectively and ensure balanced assessments Each chapter offers a variety of charts and tools that you can use in the classroom immediately as well as reflection questions and key points The book also features a handy Quick Start Guide to help you as you implement your own workshop

**K-12 STEM Education: Breakthroughs in Research and Practice** Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education

*Handbook of Research on Professional Development for Quality Teaching and Learning* Petty, Teresa, Good, Amy, Putman,

S. Michael, 2016-06-16 As educational standards continue to transform it has become essential for educators and pre service teachers to receive the support and training necessary to effectively instruct their students and meet societal expectations However there is not a clear consensus on what constitutes teacher effectiveness and quality within the education realm The Handbook of Research on Professional Development for Quality Teaching and Learning provides theoretical perspectives and empirical research on educator preparation and methods for enhancing the teaching process Focusing on teacher effectiveness and support provided to current and pre service educators this publication is a comprehensive reference source for practitioners researchers policy makers graduate students and university faculty *Teaching Mathematics in the Block* Susan Nicodemus Gilkey, Carla Herndon Hunt, 1998 First Published in 1998 Routledge is an imprint of Taylor Francis an informa company *Pedagogical Content Knowledge in STEM* Stephen Miles Uzzo, Sherryl Browne Graves, Erin Shay, Marisa Harford, Robert Thompson, 2018-10-25 This volume represents both recent research in pedagogical content knowledge PCK in science technology engineering and math STEM as well as emerging innovations in how PCK is applied in practice The notion of research to practice is critical to validating how effectively PCK works within the clinic and how it can be used to improve STEM learning As the need for more effective educational approaches in STEM grows the importance of developing identifying and validating effective practices and practitioner competencies are needed This book covers a wide range of topics in PCK in different school levels middle school college teacher training teacher professional development and different environments museums rural The contributors believe that vital to successful STEM education practice is recognition that STEM domains require both specialized domain knowledge as well as specialized pedagogical approaches The authors of this work were chosen because of their extensive fieldwork in PCK research and practice making this volume valuable to furthering how PCK is used to enlighten the understanding of learning as well as providing practical instruction This text helps STEM practitioners researchers and decision makers further their interest in more effective STEM education practice and raises new questions about STEM learning **AI Classroom Companion for Teachers: 200+ Prompts for Core Lessons, Enrichment, Student Support & Communication** ReguReady, 2025-09-07 The AI Classroom Companion for Teachers offers 200 carefully crafted prompts to simplify planning teaching and communication Designed for busy educators each prompt includes instructions expected outcomes and sample outputs so you can confidently use AI without wasting time This book organizes prompts into 5 teacher centered categories Core Teaching daily lessons units organizers scripts Enrichment passion projects debates research fairs student showcases Student Support SEL activities scaffolds for ESL ADHD peer mentoring Assessment Tools pre tests post tests rubrics reflection trackers Communication Partnerships newsletters permission slips parent updates alumni outreach Every section ends with workflow recipes that show you how to chain prompts together for maximum impact It s the perfect companion for teachers tutors and homeschool families looking for time saving AI resources **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

**Resources in Education** ,2001-10

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web to create the dichotomous key one asks a series of questions with either a yes or no answer until there is only one item in an answer to a question the last question leads to the identification of a specific organism below is an example of a dichotomous key in a flow chart format that can be used to identify an insect dog snail and worm

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