

## Lesson Plan

# Number Talk



**Subject: Mathematics**

### Objectives:

- Using number talks children will be:
- (i) Confident in solving math problems.
  - (ii) Gradually speed up in calculations.
  - (iii) Be more flexible to reach mathematical solution

### Lesson Plan:

Number talk is nothing but discussions over numbers. It helps children to grow confident with numbers and not feel anxious. It helps them to think, visualize, be flexible in using mathematical strategies and reach the end result of a problem via multiple ways rather one!

Exposing children to this earlier in life helps them to become more comfortable and have fun with numbers rather than feeling all confused. They also feel encouraged to justify and explain their stance on how they got to the end result.

The best part of number talks or math chats is that it does not have to be structured! For a beginner, start with basic conversations or discussions. for example, ask a child "If I add 5 and 7, what will be the total of it? the child will say the answer 12.

Now, ask them is there any other way we can get the answer 12, by adding, subtracting any other two numbers? (they may answer:  $6+6$ ;  $3+9$ ;  $15-3$ , and so on.) Help them by giving examples if they are unable to.

Alright after leading the conversation in this direction, we move forward to some of the techniques that can be used:

# Participant Guide For Number Talks

**Henry Cloud, John Townsend**



## **Participant Guide For Number Talks:**

**Serving Like Jesus** Doug Fields, Brett Eastman, 2006 These six new study guides have six sessions each and enable small groups to explore the power and life application of Jesus teaching on the five biblical purposes of a Christian life by closely examining Christ's model in the Gospels

**Mathematics as the Science of Patterns** Patrick M. Jenlink, 2022-02-01  
Mathematics as the Science of Patterns Making the Invisible Visible to Students through Teaching introduces the reader to a collection of thoughtful research based works by authors that represent current thinking about mathematics mathematics education and the preparation of mathematics teachers Each chapter focuses on mathematics teaching and the preparation of teachers who will enter classrooms to instruct the next generation of students in mathematics The value of patterns to the teaching and learning of mathematics is well understood both in terms of research and application When we involve or appeal to pattern in teaching mathematics it is usually because we are trying to help students to extract greater meaning or enjoyment or both from the experience of learning environments within which they are occupied and perhaps also to facilitate remembering As a general skill it is thought that the ability to discern a pattern is a precursor to the ability to generalize and abstract a skill essential in the early years of learning and beyond Research indicates that the larger problem in teaching mathematics does not lie primarily with students rather it is with the teachers themselves In order to make changes for students there first needs to be a process of change for teachers Understanding the place of patterns in learning mathematics is a predicate to understanding how to teach mathematics and how to use pedagogical reasoning necessary in teaching mathematics Importantly the lack of distinction created by the pedagogical use of patterns is not immediately problematic to the student or the teacher The deep seated cognitive patterns that both teachers and students bring to the classroom require change Chapter 1 opens the book with a focus on mathematics as the science of patterns and the importance of patterns in mathematical problem solving providing the reader with an introduction The authors of Chapter 2 revisit the work of Polya and the development and implementation of problem solving in mathematics In Chapter 3 the authors present an argument for core pedagogical content knowledge in mathematics teacher preparation The authors of Chapter 4 focus on preservice teachers patterns of conception as related to understanding number and operation In Chapter 5 the authors examine the role of visual representation in exploring proportional reasoning denoting the importance of helping learners make their thinking visible The authors of Chapter 6 examine patterns and relationships and the importance of each in assisting students learning and development in mathematical understanding The authors of Chapter 7 examine the use of worked examples as a scalable practice with emphasis on the importance of worked examples in teaching fraction magnitude and computation is discussed In Chapter 8 the authors expand on the zone of proximal development to investigate the potential of Zankov's Lesson in terms of students analyzing numerical equalities The authors of Chapter 9 focus on high leverage mathematical practices in elementary pre service teacher preparation drawing into specific relief the APEX cycle to

develop deep thinking In Chapter 10 the author focuses on number talks and the engagement of students in mathematical reasoning which provides opportunities for students to be sensemakers of mathematics Chapter 11 presents an epilogue focusing on the importance of recognizing the special nature of mathematics knowledge for teaching Mission Shaped Living Participant's Guide John McGinley, 2020-08-01 More than just a tool box of how to do evangelism Mission Shaped Living will build spiritual practices vision hope and confidence into your life so that sharing God's love with others becomes a joy and not a burden Society has shifted and the way mission was done in the past is no longer effective People are looking for authenticity and Christians are looking for a lifelong and deep discipleship that results in effective mission with authenticity Structured over eight sessions this participant's guide is designed to work alongside the Mission Shaped Living Leader's Guide to provide everything needed to run the course Mission Shaped Living gives churches small groups and individual believers the tools and resources to develop discipleship and an outward focus to reach and bless their communities cities and nations

**Handbook of Research on Advancing Teaching and Teacher Education in the Context of a Virtual Age** Zimmerman, Aaron Samuel, 2022-12-28 The possibilities of the virtual age can provide many valuable resources and opportunities for teachers preservice teachers and teacher educators However in order to utilize these resources responsibly and productively the researchers and practitioners of teaching and teacher education must better understand the new potentials and pitfalls related to teaching and learning that are present within the virtual age The Handbook of Research on Advancing Teaching and Teacher Education in the Context of a Virtual Age focuses on the recent innovations in teaching and teacher educations as well as innovations in the curriculum and pedagogy of teacher education It deepens discussions related to how teacher education can address educational possibilities within this digital age Covering topics such as learning material adaptation teacher talent pipelines and metaverse this major reference work is a comprehensive resource for administrators and educators of both K 12 and higher education teacher educators pre service teachers government officials librarians researchers and academicians

*Interweaving Equitable Participation and Deep Mathematics* Susan Jo Russell, Deborah Schifter, 2024-10-24 Creating mathematical community in elementary classrooms to support equitable engagement in deep mathematical content What does a mathematical community look like in an elementary classroom How do teachers engage young mathematicians in deep and challenging mathematical content How do we ensure that every student contributes their voice to this community Interweaving Equitable Participation and Deep Mathematics Building Community in the Elementary Classroom focuses on a dual commitment to teaching deep and challenging mathematics and to equitable participation for all students in the classroom community With practical strategies and real life examples Susan Jo Russell and Deborah Schifter offer a design for building community organized around four key aspects every voice matters collaboration supports student agency student created representations offer anchors openings and depth and students become initiators and advocates for their own learning Each chapter examines how

teachers implement these ideas through video examples from six public elementary school classrooms A powerful resource for any educator interested in a mathematics education that fosters a true sense of community this book Provides a window into a learning community of educators applying their understanding of mathematics to develop a teaching practice that fosters students curiosity meaning making and mathematical agency Presents vivid examples of teachers and students in diverse classrooms engaged in rich mathematical tasks and deep collaborative conversations inviting readers to reflect on their practices and students learning Engages readers in math investigations to help them understand student thinking provides reflection questions about the classroom video and offers suggestions for taking next steps in one s own practice Includes commentaries on the videos by a group of critical friends educators with deep experience in mathematics and equity and by the teachers of the classrooms in the videos Offers free online tools for professional development and book study groups including a Facilitator s Guide and a Notes Organizer and suggests resources for continued learning This book is a must read for anyone passionate about creating positive change in the mathematics education system and ensuring that every student has the opportunity to thrive in their mathematical journey A Guide to Observation, Participation, and Reflection in the Classroom Arthea J. S. Reed,Verna E. Bergemann,2005 This guide provides you with a practical resource for school based observations teaching experiences and reflection that not only will bridge the gap between the world of the student and the world of the teacher but also will help you connect the world of theory with the world of practice Includes completed and sequential sample forms of anecdotal and structured observations and template forms at the back of the text and on the CD ROM This edition covers the No Child Left Behind legislation discussion of the INTASC core standards and principles and their integration into the sample forms Expanded guidance on portfolio development including new sections on how to start a portfolio and expanded coverage of inclusion and resources for observing diversity in the classroom

**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 *Boundaries with Kids Leaders Gde* Henry Cloud,John Townsend,2003-02 When to say yes when to say no to help your children gain control of their lives **A Crazy, Holy Grace Leader Guide** Frederick Buechner,2018-03-20 When pain is real why is God silent This brand new collection is the best of acclaimed author Frederick Buechner s essays on pain loss and the healing power of memories that explores God s tender grace and how to be stewards of the pain in our lives Here now are the best of Buechner s writings on pain and loss covering such topics as the power of hidden secrets loss of a dearly beloved letting go resurrection from the ruins peace and listening for the quiet voice of God And he reveals that pain and sorrow can be a treasure an amazing grace The Leader Guide contains everything needed to guide a group through the four week study including session plans activities and discussion questions as well as multiple format options **The Handbook of Attitudes, Volume 1: Basic Principles** Dolores Albarracin,Blair T. Johnson,2018-10-10 Attitudes are evaluations of people places things and ideas They help us to navigate through a complex world They provide guidance for decisions about which products to buy how to travel to work or where to go on vacation They color our perceptions of others Carefully crafted interventions can change attitudes and behavior Yet attitudes beliefs and behavior are often formed and changed in casual social exchanges The mere perception that other people favor something say rich people may be sufficient to make another person favor it People s own actions also influence their attitudes such that they adjust to be more supportive of the actions People s belief systems even change to align with and support their preferences which at its extreme is a form of denial for which people lack awareness These two volumes provide authoritative critical surveys of theory and research about attitudes beliefs persuasion and behavior from key authors in these areas The first volume covers theoretical notions about attitudes the beliefs and behaviors to which they are linked and the degree to which they are held outside of awareness It also discusses motivational and cultural determinants of attitudes influences of attitudes on behavior and communication and persuasion The second volume covers applications to measurement behavior prediction and interventions in the areas of cancer HIV substance use diet and exercise as well as in politics intergroup relations aggression migrations advertising accounting education and the environment

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