

PreK–Grade 2

Children spend a lot of time with all kinds of ideas about numbers, shapes, measuring tools, time, and money—ideas formed from the experiences they have while using the things they see in everyday life: the computer screen, the children's books, all around them. It is no wonder some children develop very interesting and perhaps incorrect ideas about mathematical concepts.

It is not to remove the informal knowledge that students bring to our classrooms with the mathematics program adopted by our school system just as important, but it is to ensure that the mathematics we are introducing and reinforcing is accurate and will not need to be brought to "last year."

This companion resource to *Math Misconceptions* answers these questions by providing explicit instructional ideas and engaging activities that can be implemented in any classroom. Aligned with the NCTM standards, *Activities to Undo Math Misconceptions, PreK–Grade 2*:

- addresses the most common errors found in each of the five NCTM content strands
- offers numerous instructional ideas ("What If?") for correcting misconceptions and preventing misconceptions from taking root
- includes 100 activities, more than 50 activities and games that can be immediately incorporated into your classroom instruction
- helps guide your formative assessment with suggested "Look For's" as students work through the activities

The downloadable resources include editable versions of the 100 activities in both English and Spanish, allowing you to customize the activities for your particular classroom.

Through your students' math misconceptions, this practical, student resource will help make it all make sense and make math achievement in your classroom.

Activities to Undo Math Misconceptions

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Karren Schultz-Ferrell



Honi J. Bamberger is a former classroom teacher and now a professor of mathematics at Towson University. She is the author of numerous books and articles, as well as a mathematics education consultant.



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Honi and Karren are both nationally recognized speakers and consultants.

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Activities To Undo Math Misconceptions Prek Grade

Adrian B. Sanford



Activities To Undo Math Misconceptions Prek Grade :

Activities to Undo Math Misconceptions Honi Joyce Bamberger, Karren Schultz-Ferrell, 2010 A companion resource to Math Misconceptions Activities to Undo Math Misconceptions provide explicit instructional ideas and engaging activities that can be implemented in any classroom Aligned with the NCTM Standards this practical guide includes classroom vignettes and problem based situations that provide additional insight into the misconception or error pattern that is being described Relevant research is offered as well as a range of time saving instructional suggestions Activities to Undo Math Misconceptions Grades PreK 2 address the most common errors found in each of the five NCTM content strands number and operations algebra geometry measurement and data analysis and probability offer numerous instructional ideas What to Do for correcting common errors and preventing misconceptions from taking root include black line masters for more than 30 activities and games that can be immediately incorporated into your classroom instruction help guide your formative assessment with suggested Look Fors as students work through the activities An accompanying CD contains editable versions of the blackline masters in both English and Spanish allowing you to customize the activities for your particular classroom

Activities to Undo Math Misconceptions, Prek-Grade 2 Honi J. Bamberger, Karren Schultz-Ferrell, 2010-09 Describes how to connect the informal knowledge that students bring to classrooms and how to ensure that the mathematics we are introducing and reinforcing is accurate and will not need to be re taught in later years The explicit instructional ideas and engaging activities that can be implemented in any classroom and are aligned with NCTM Standards

Math Misconceptions Honi Joyce Bamberger, Christine Oberdorf, Karren Schultz-Ferrell, 2010-01-01 Children enter school filled with all kinds of ideas about numbers shapes measuring tools time and money ideas formed from the expressions they hear the things they see on television the computer screen in children s books all around them It s no wonder some children develop very interesting and perhaps incorrect ideas about mathematical concepts How can we connect the informal knowledge that students bring to our classrooms with the mathematics program adopted by our school system Just as important how do we ensure that the mathematics we are introducing and reinforcing is accurate and will not need to be re taught in later years Math Misconceptions answers these questions by identifying the most common errors relative to the five NCTM content strands number and operations algebra geometry measurement and data analysis and probability investigating the source of these misunderstandings proposing ways to avoid as well as undo misconceptions Using classroom vignettes that highlight common misconceptions in each content area followed by applicable research about the root causes of the confusion the authors offer numerous instructional ideas and interventions designed to prevent or correct the misconception Publisher s description

Introduction to Connections Honi Joyce Bamberger, Christine Oberdorf, 2007 NCTM s Process Standards support teaching that helps children develop independent effective mathematical thinking The books in the Heinemann Math Process Standards Series give every primary teacher the opportunity to explore each standard

in depth With language and examples that don't require prior math training to understand the series offers friendly reassuring advice and ready to use examples to any teacher ready to embrace the Process Standards In Introduction to Connections Honi Bamberger and Christine Oberdorf familiarize you with ways to help students see the relationships between and among mathematical skills and content They offer an array of entry points for understanding planning and teaching including strategies that help students build upon and link mathematical thinking across units by recognizing connections among math concepts real world applications and other content areas The book and accompanying CD ROM are filled with activities that are modifiable for immediate use with students of all levels customizable to match your specific lessons In addition a correlation guide helps you match the math content you teach with the mathematical processes it utilizes If your students aren't making mathematical connections or if you're simply looking for ways to work the connections standard into your curriculum read dog ear and teach with Introduction to Connections And if you'd like to learn about any of NCTM's process standards or you're looking for classroom tested ways to address them look no further than Heinemann's Math Process Standards Series You'll find them explained in the most understandable and practical way from one teacher to another

Introduction to Connections Honi Joyce Bamberger, Christine Oberdorf, 2007 NCTM's Process Standards were designed to support teaching that helps children develop independent effective mathematical thinking The books in the Heinemann Math Process Standards Series give every elementary teacher the opportunity to explore each one of the standards in depth And with language and examples that don't require prior math training to understand the series offers friendly reassuring advice to any teacher preparing to embrace the Process Standards In Introduction to Connections Honi Bamberger and Christine Oberdorf familiarize you with ways to help students see the relationships between and among mathematical skills and content They offer an array of entry points for understanding planning and teaching including strategies that help students build upon and link mathematical thinking across units and lessons instead of merely moving on to the next chapter in their textbook Full of activities that are modifiable for immediate use with students of all levels and written by veteran teachers for teachers of every level of experience Introduction to Connections highlights the importance of encouraging children to develop understanding and insight by recognizing connections between math concepts while also recommending ways to implement connection based teaching without rewriting your curriculum Best of all like all the titles in the Math Process Standards Series Introduction to Connections comes with two powerful tools to help you get started and plan well a CD ROM with activities customizable to match your lessons and a correlation guide that helps you match mathematical content with the processes it utilizes If your students aren't making connects between mathematical concepts Or if you're simply looking for new ways to work the connections standard into your curriculum read dog ear and teach with Introduction to Connections And if you'd like to learn about any of NCTM's process standards or if you're looking for new classroom tested ways to address them in your math teaching look no further than Heinemann's Math Process Standards

Series You ll find them explained in the most understandable and practical way from one teacher to another
Adrian B. Sanford,2000

Active Math

Unveiling the Magic of Words: A Overview of "**Activities To Undo Math Misconceptions Prek Grade** "

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Activities To Undo Math Misconceptions Prek Grade** ," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Activities To Undo Math Misconceptions Prek Grade Introduction

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