



Math in Motion



Essential Questions

- How can the body be used as a tool for math?
- How do dancers get ideas?

VOCABULARY

represent	subtraction
movement	
express	
addition	

Materials List

- Open floor space

Pacing

1-2 SESSIONS

Assessment

SUMMATIVE

Students will demonstrate mathematical understanding through choreography.

Elements of DANCE

- Movement
- Body
- Space

CONTENT Standard

CCSS.MATH.CONTENT.K.OA.A.1

Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

ARTS Standard

DA:Cr2.1.Kb

Express an idea, feeling, or image, through improvised movement moving alone or with a partner.

Additional Standards Addressed:

DA:Pr5.1.Kb
DA:Cr1.1.1.Ka

21st Century Skills

- Creative thinking
- Communication
- Collaborate
- Social Skills

Lesson Objective

Students will be able to demonstrate their understanding of addition and subtraction through original movement which demonstrates the principles of dance.

Lesson Overview

Movement in the classroom is a natural way to increase blood and oxygen flow, which enhances and promotes cognitive development. It also make learned concepts stay with students more effectively. Using this knowledge, and realizing that the concepts of addition and subtraction will lay the groundwork for many years to come in the area of math, this lesson will ask students to physicalize the definitions of and demonstrate their understanding of the concepts.



Artful Thinking Routine

Listening: Ten Times Two

Play the first segment of "[Happy Music - Music for Positive Energy](#)" (about 3:40 of the whole thing).

- Listen quietly. Let your ears wander and take in as much as possible.
- Share 10 words or phrases about any aspect of what you hear.
- Repeat Steps 1 & 2: Listen again and try to add 10 more words or phrases to your list.

Artful Thinking by Project Zero is licensed under a Creative Commons AttributionNonCommercial 4.0 International License. Routine found here: <http://partfulthinking.org/>

Math In Motion

Barbara M. Sattler



Math In Motion:

Math in Motion Caleb Skogen,2017 **Math in Motion** Classical Conversations MultiMedia,2015-11-04 Math in Motion Classical Conversations MultiMedia,2015-11-04 Math in Motion Barbara Erica Pearl,1997 Shows how origami can be used in the classroom to teach students mathematical principles **Math in Motion** Barbara Pearl,1999 How to use math manipulatives across the curriculum **Math in Motion** Barbara Pearl,1994 *The World of Mathematics: Mathematics of motion* James Roy Newman,1956 The Mathematical Analysis of Electrical and Optical Wave-motion on the Basis of Maxwell's Equations Harry Bateman,1915 *A Treatise on the Mathematical Theory of the Motion of Fluids* Sir Horace Lamb,1879 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 **System of Fellowships** ,1880 Modeling Motion Linda J. Antinone,Sam Gough,Jill Gough,2000 **Mathematical theories of planetary motion** Otto Franz Dziobek,1892 **The Concept of Motion in Ancient Greek Thought** Barbara M. Sattler,2020-10-08 This book examines the birth of the scientific understanding of motion It investigates which logical tools and methodological principles had to be in place to give a consistent account of motion and which mathematical notions were introduced to gain control over conceptual problems of motion It shows how the idea of motion raised two fundamental problems in the 5th and 4th century BCE bringing together being and non being and bringing together time and space The first problem leads to the exclusion of motion from the realm of rational investigation in Parmenides the second to Zeno's paradoxes of motion Methodological and logical developments reacting to these puzzles are shown to be present implicitly in the atomists and explicitly in Plato who also employs mathematical structures to make motion intelligible With Aristotle we finally see the first outline of the fundamental framework with which we conceptualise motion today Mathematical Basics of Motion and Deformation in Computer Graphics Ken Anjyo,Hiroyuki Ochiai,2014-10-22 This synthesis lecture presents an intuitive introduction to the mathematics of motion and deformation in computer graphics Starting with familiar concepts in graphics such as Euler angles quaternions and affine transformations we illustrate that a mathematical theory behind these concepts enables us to develop the techniques for efficient effective creation of computer animation This book therefore serves as a good guidepost to mathematics differential geometry and Lie theory for students of geometric modeling and animation in computer graphics Experienced developers and researchers will also benefit from this book since it gives a comprehensive overview of mathematical approaches that are particularly useful in character modeling deformation and animation Table of Contents Preface Symbols and Notations Introduction Rigid Transformation Affine Transformation Exponential and Logarithm of Matrices 2D Affine Transformation between Two Triangles Global 2D Shape Interpolation Parametrizing 3D Positive Affine Transformations Further Readings Bibliography Authors Biographies **Elements of the Mathematical Theory of Fluid Motion** Thomas Craig,1879 *ICONESS 2021* Subuh Anggoro,Sriyanto Sriyanto,Ng Khar Thoe,Corrienna Abdul Talib,2021-11-26 This book constitutes the thoroughly refereed proceedings of the 1st International

Conference on Social Sciences ICONESS 2021 held in Purwokerto Indonesia in July 2021 The 60 full papers presented were carefully reviewed and selected from 100 submissions The papers reflect the conference sessions as follows Education Curriculum and Instruction Education and Development Educational Psychology Mathematic Education Science Education Social Science Education Measurement and Evaluation Primary Education and Higher Education Religion Islamic Education Fiqh Science and Technology Halal Science Islamic Civilization Shariah Economic and Literation Teaching English as a Second Language TESL Language and Communication Literacy **Adobe After Effects 5** Antony Bolante,2002 Adobe After Effects is the ultimate tool for creating motion graphics and visual effects for film video CD DVD or the Web The step by step approach of this new guide shows how to create stunning visual effects as it takes readers to the next level of expertise The CD ROM features sample files that illustrate many of the examples in the book **Bulletin - University Number** Syracuse University,1907 **General Catalogue** Syracuse University,1927

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