

Mathematical Communication Based on Maslow's Theory: A Study of Learning Motivation in Elementary School Students

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Abstract

Mathematical communication skills are of utmost importance for students to effectively solve mathematical problems. However, the evidence suggests that elementary school students still exhibit very low levels of communication skills. Communication skills are influenced significantly by various factors, and one of these factors is learning motivation. This study aims to describe and analyze the mathematical communication abilities of students in the topic of linear equations of two variables, taking into account their learning motivation based on Maslow's theory. The research design employed in this study is descriptive qualitative. The data collection instruments consist of written tests on the topic of a two-variable linear equation system, non-test instruments in the form of questionnaires to assess students' learning motivation based on Maslow's theory, and semi-structured interview guidelines. The subjects of the study were fifth-grade students at SDN Kedungsari Purworejo, and a sample of six students was selected using purposive sampling. The data analysis technique involved data reduction, data visualization, and drawing conclusions. The research findings indicate that students who fulfill all aspects of Maslow's theoretical hierarchy exhibit higher learning motivation. This is evident in the differences observed in their responses to the questions. Students who fulfill all aspects of Maslow's theoretical hierarchy put in more effort to provide detailed and clear answers, while students who only fulfill some aspects of Maslow's theoretical hierarchy tend to answer questions more straightforwardly without providing a more elaborate explanation.

INTRODUCTION

Mathematics is a discipline taught to students from elementary school, junior high school, senior high school, and even at the tertiary level. This is due to the significant role of mathematics in advancing society. Mathematics education plays a crucial role in developing students' abilities to convey information through various forms, such as oral, written, diagrams, and graphs (Nurtaila et al., 2018; Sabroni, 2017). The main objective of mathematics education is to equip students with problem-solving skills, including the ability to understand problems, design mathematical models, solve models, interpret obtained solutions, and develop perseverance and confidence in problem-solving (Wardhani, 2008).

One essential skill required in solving mathematical problems is communication. Communication skills for students involve the ability to express ideas, describe, and discuss mathematical concepts coherently and clearly (Kaya & Aydin, 2016; Lomibao et al., 2016). This ability encompasses students' capability to explain and justify actions in procedures and processes both orally and in writing. Strayer & Brown (2012) emphasized that interactions and communications play a vital role in the learning process. This view is supported by Bruner (1966), who argued that communication skills play a central role in the development of cognitive structures and that language serves not only to represent experiences but also to transform ideas. Mathematical communication involves skills in conveying and elaborating mathematical ideas and concepts using meticulous, analytical, critical, and evaluative

Mathematical Theory Of Elementary Partic

P. Urban



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Mathematical theory of elementary particles Irving E. Segal, Roe Goodman, 1966 *Mathematical Theory of Elementary Particles*, 1966 **Proceedings of the conference on the mathematical theory of elementary particles : held at Endicott House, in Dedham, Mass., Sept. 12 - 15, 1965** Conference on the Mathematical Theory of Elementary Particles, 1966 **Symmetry and the Standard Model** Matthew Robinson, 2011-08-17 While theoretical particle physics is an extraordinarily fascinating field the incredibly fast pace at which it moves along combined with the huge amount of background information necessary to perform cutting edge research poses a formidable challenge for graduate students This book represents the first in a series designed to assist students in the process of transitioning from coursework to research in particle physics Rather than reading literally dozens of physics and mathematics texts trying to assimilate the countless ideas translate notations and perspectives and see how it all fits together to get a holistic understanding this series provides a detailed overview of the major mathematical and physical ideas in theoretical particle physics Ultimately the ideas will be presented in a unified consistent holistic picture where each topic is built firmly on what has come before and all topics are related in a clear and intuitive way This introductory text on quantum field theory and particle physics provides both a self contained and complete introduction to not only the necessary physical ideas but also a complete introduction to the necessary mathematical tools Assuming minimal knowledge of undergraduate physics and mathematics this book lays both the mathematical and physical groundwork with clear intuitive explanations and plenty of examples The book then continues with an exposition of the Standard Model of Particle Physics the theory that currently seems to explain the universe apart from gravity Furthermore this book was written as a primer for the more advanced mathematical and physical ideas to come later in this series *Elementary Particles* Kobzarev, Y.I. Manin, 1989-02-28 This book has come into being as a result of scientific debates And these debates have determined its structure The first chapter is in the form of Socratic dialogues between a mathematician MATH two physicists PHYS and EXP and a philosopher PHIL However although one of the authors is a theoretical physicist and the other a mathematician the reader must not think that their opinions have been divided among the participants of the dialogues We have tried to convey the inner tension of the topic under discussion and its openness The attitudes of the participants reflect more the possible evaluations of the situation rather than the actual views of the authors What is more the subject elementary particles as dealt with in the 3 6 dialogue stretches over 2 3 10 years of historical time and a space of 10 1 pages of scientific literature For this reason a complete survey of it is unachievable But of course every researcher constructs his own history of his science and sees a certain list of its main points We have attempted to float several possible pictures of this kind Therefore the fact that Math and Phys talk about the history of elementary particles is not an attempt to present the scientific history of this realm of physics **Current Problems in Elementary Particle and Mathematical Physics** P. Urban, 2012-12-06 *Proceedings Mathematical Theory of Elementary Particles*

,1966 **Mathematical Theory of Feynman Path Integrals** Sergio A. Albeverio,Raphael J. Høegh-Krohn,2006-11-14
 Feynman path integrals suggested heuristically by Feynman in the 40s have become the basis of much of contemporary physics from non relativistic quantum mechanics to quantum fields including gauge fields gravitation cosmology Recently ideas based on Feynman path integrals have also played an important role in areas of mathematics like low dimensional topology and differential geometry algebraic geometry infinite dimensional analysis and geometry and number theory The 2nd edition of LNM 523 is based on the two first authors mathematical approach of this theory presented in its 1st edition in 1976 To take care of the many developments which have occurred since then an entire new chapter about the current forefront of research has been added Except for this new chapter the basic material and presentation of the first edition was maintained a few misprints have been corrected At the end of each chapter the reader will also find notes with further bibliographical information **Mathematical Theory of Elementary Particles** Roe Goodman,1966

Mathematical theory of elementary particles : held at Endicott House, in Dedham, Mass., Sept. 12-15, 1965 Irving Ezra Segal,1966 Proceedings of the Conference on the Mathematical Theory of Elementary Particles Roe Goodman,Irving Ezra Segal,1966 Mathematics of Quantization and Quantum Fields Jan Dereziński,Christian Gérard,2023-02-09 This 2013 book now OA offers a definitive review of mathematical aspects of quantization and quantum field theory Mathematical theory of elementary particles held at Endicott House, in Dedham, Mass., September 12-15, 1965 ,1966 *Dynamics of Charged Particles and their Radiation Field* Herbert Spohn,2023-07-27 An introduction to classical electron theory and non relativistic quantum electrodynamics reissued as an Open Access publication **Ideas and Methods in Mathematical Analysis, Stochastics, and Applications: Volume 1** Sergio Albeverio,Helge Holden,Jens Erik Fenstad,Tom Lindstrøm,1992-06-26 A collection of essays by many of the closest co workers of Raphael H øgh Krohn **Mathematical Aspects of Classical Field Theory** Mark J. Gotay,Jerrold E. Marsden,Vincent Moncrief,1992 Classical field theory has undergone a renaissance in recent years Symplectic techniques have yielded deep insights into its foundations as has an improved understanding of the variational calculus Further impetus for the study of classical fields has come from other areas such as integrable systems Poisson geometry global analysis and quantum theory This book contains the proceedings of the AMS IMS SIAM Joint Summer Research Conference on Mathematical Aspects of Classical Field Theory held in July 1991 at the University of Washington at Seattle The conference brought together researchers in many of the main areas of classical field theory to present the latest ideas and results The volume contains thirty refereed papers both survey and research articles and is designed to reflect the state of the art as well as chart the future course of the subject The topics fall into four major categories global analysis and relativity cosmic censorship initial value problem quantum gravity geometric methods symplectic and Poisson structures momentum mappings Dirac constraint theory BRST theory and the calculus of variations the variational bicomplex higher order theories Also included are related topics with a classical basis such as geometric

quantization integrable systems symmetries deformation theory and geometric mechanics **Mathematical Physics 2000**

Athanassios Fokas,Alexander Grigoryan,Tom Kibble,Boguslaw Zegarlinski,2000-05-05 Mathematical physics has made enormous strides over the past few decades with the emergence of many new disciplines and with revolutionary advances in old disciplines One of the especially interesting features is the link between developments in mathematical physics and in pure mathematics Many of the exciting advances in mathematics owe their origin to mathematical physics superstring theory for example has led to remarkable progress in geometry while very pure mathematics such as number theory has found unexpected applications The beginning of a new millennium is an appropriate time to survey the present state of the field and look forward to likely advances in the future In this book leading experts give personal views on their subjects and on the wider field of mathematical physics The topics covered range widely over the whole field from quantum field theory to turbulence from the classical three body problem to non equilibrium statistical mechanics **Quantum Field Theory I: Basics in Mathematics and Physics** Eberhard Zeidler,2007-04-18 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists The book bridges the acknowledged gap between the different languages used by mathematicians and physicists For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics *General Principles of Quantum Field Theory* N.N. Bogolubov,Anatoly A. Logunov,A.I. Oksak,I. Todorov,2012-12-06 The majority of the memorable results of relativistic quantum theory were obtained within the framework of the local quantum field approach The explanation of the basic principles of the local theory and its mathematical structure has left its mark on all modern activity in this area Originally the axiomatic approach arose from attempts to give a mathematical meaning to the quantum field theory of strong interactions of Yukawa type The fields in such a theory are realized by operators in Hilbert space with a positive Poincare invariant scalar product This classical part of the axiomatic approach attained its modern form as far back as the sixties It has retained its importance even to this day in spite of the fact that nowadays the main prospects for the description of the electro weak and strong interactions are in connection with the theory of gauge fields In fact from the point of view of the quark model the theory of strong interactions of Wightman type was obtained by restricting attention to just the physical local operators such as hadronic fields consisting of fundamental quark fields acting in a Hilbert space of physical states In principle there are enough such physical fields for a description of hadronic physics although this means that one must reject the traditional local Lagrangian formalism The connection is restored in the approximation of low energy phe nomenological Lagrangians **Scattering Theory in Mathematical Physics** J.A. Lavita,J.P. Marchand,2012-12-06 These proceedings contain lectures given at the N A T O

Advanced Study Institute entitled Scattering Theory in Mathematics and Physics held in Denver Colorado June 11 29 1973
We have assembled the main series of lectures and some presented by other participants that seemed naturally to complement them Unfortunately the size of this volume does not allow for a full account of all the contributions made at the Conference however all present were pleased by the number and breadth of those topics covered in the informal afternoon sessions The purpose of the meeting as reflected in its title was to examine the single topic of scattering theory in as many of its manifestations as possible i e as a hub of concepts and techniques from both mathematics and physics The format of all the topics presented here is mathematical The physical content embraces classical and quantum mechanical scattering N body systems and quantum field theoretical models Left out are such subjects as the so called analytic S matrix theory and phenomenological models for high energy scattering We would like to thank the main lecturers for their excellent presentations and written summaries They provided a focus for the exceptionally strong interaction among the participants and we hope that some of the coherence achieved is reflected in these published notes We have made no attempt to unify notation

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