

Mathematics for Our World



Learning Outcomes

At the end of this lesson, you should be able to:

- Define Mathematics; and
- Articulate the importance of mathematics in one's life.



Content

Introduction of Mathematics

In the book of 3G E-LEARNING (2018), most contemporary reference works define mathematics mainly by summarizing its main topics and methods:

- "The abstract science which investigates deductively the conclusions implicit in the elementary conceptions of spatial and numerical relations, and which includes as its main division's geometry, arithmetic, and algebra" - (Oxford English Dictionary, 1933)
- "The study of the measurement, properties, and relationships of quantities and sets, using numbers and symbols" - (American Heritage Dictionary, 2000)
- "The science of structure, order, and relation that has evolved from elemental practices of counting, measuring, and describing the shapes of objects"

Nocon & Nocon (2018) defined *Mathematics as the study of numbers and arithmetic operations*. It is also considered *an art that studies patterns for predictive purposes or specialized language which deals with form, size, and quantity*. (Nocon & Nocon, 2018, pp. 3)

Mathematics is the science that deals with the logic of shape, quantity, and arrangement. Math is all around us, in everything we do. It is the building block for everything in our daily lives, including mobile devices, architecture (ancient and modern), art, money, engineering, and even sports.¹

Nature of Mathematics

Based on the various definitions, the nature of mathematics can be listed as follows (3G E-LEARNING (2018):

- **An intellectual game** – Mathematics can be treated as an intellectual game with its own rules and without any relation to external criteria. From this viewpoint, mathematics is mainly a matter of puzzles, paradoxes, and problem solving – a sort of healthy mental exercise.
- **The art of drawing conclusions** – One of the important functions of the school is to familiarize children with a mode of thought which helps them in drawing right conclusions and inferences. According to J.W.A. Young a subject suitable for this purpose should have three characteristics:
 - That its conclusion is certain. At first, at least it is essential that the learner should know whether or not he has drawn the correct conclusion.
 - That it permits the learner to begin with simple and very easy conclusions to pass in well graded sequence to very difficult ones, as the earlier ones are mastered.

¹ (2013, August 16). What is Mathematics? | Live Science. Retrieved June 23, 2020, from <https://www.livescience.com/38936-mathematics.html>

Mathematics In Our World 4 Extending The Ideas

Teachers Mathematics In Our World Ser

**William George Bruce, William Conrad
Bruce**



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Subject Guide to Children's Books In Print, 1996 R R Bowker Publishing, 1996 **The Publishers' Trade List Annual**, 1985 **Curriculum Review**, 1981 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1969 Books in Print, 1982 **Math for Life 4' 2006 Ed.**, *Books in Print Supplement*, 1984 **Resources in Education**, 2000-10 **Subject Guide to Books in Print**, 1993 Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant, Children's Books In Print 1998 Bowker Editorial Staff, R R Bowker Publishing, Bowker, 1998 **Departments of Labor, Health and Human Services, Education, and related agencies appropriations for fiscal year 1984** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Departments of Labor, Health and Human Services, Education, and Related Agencies, 1983 **Climate Change, Education, and Technology** Menşure Alkış Küçükaydın, Hakan Ulum, Ömer Gökhan Ulum, 2024-11-25 The climate change crisis is the greatest challenge humanity has ever confronted As human activities are the most significant cause for this crisis the solution must come from within humanity While global movements NGOs universities municipal governments etc are doing their part to combat the crisis the role of education and technology cannot be emphasized enough Education is necessary to enhance awareness especially among the youth generate solutions and implement them Technology contributes to this process by creating climate change fighting solutions accumulating and analysing data and providing energy efficiency Technology also enables the monitoring of the climate the mitigation of its effects and the enhancement of the environment Therefore climate change education and the use of technology should be addressed as a unit In this volume the authors integrate climate change education and technological applications This book is comprehensive and offers readers a variety of perspectives encouraging the generation of novel and inventive ideas The collaboration of authors from various disciplines to address the issue brings about novel and intriguing perspectives The American School Board Journal William George Bruce, William Conrad Bruce, 1911 **Congressional Record** United States. Congress, 1962 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **Exploring the Math and Art Connection** Daniel Jarvis, Irene Naested, 2012 Daniel Jarvis and Irene Naested highlight the natural association between math and art in a series of practical ideas for the classroom because when students understand the math art connection their understanding and confidence increase in both subjects Through innovative teaching strategies and more than 100 rich learning experiences Jarvis and Naested give teachers a wealth of engaging tools to explore the math art connection with their own students This connection is established through examinations of natural and human designed objects from how pine cone scales spiral out

in a Fibonacci sequence to how geometric shapes combine in architecture to form some of the most beautiful structures on the planet Children's Books in Print R R Bowker Publishing,Bowker,1999-12 **Research in Education** ,1973

Teaching Secondary Mathematics Alfred S. Posamentier,Jay Stepelman,2002 The revision of this book introduces the 2000 NCTM Principles and Standards and explains their use for teaching secondary school mathematics instruction Unlike other books it utilizes 125 enrichment units to provide the staples in preparing to teach mathematics The authors provide step by step techniques on preparing lessons and tests motivating students designing assignments and organizing the classroom This valuable book also provides practical teaching methods for immediate use along with answers to typical questions readers have about teaching math Chapter topics include the mathematics teacher today long range and short range planning teaching more effective lessons the role of problem solving in the mathematics classroom using technology to enhance mathematics instruction authentic assessment and grading strategies enriching mathematics instruction and extracurricular activities in mathematics For mathematics teachers in secondary schools ENC Focus ,1999

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