

MATHEMATICS GRADE 11 NOTES

EXAMPLES:

Example 1

$$(x-3)(x+5) = 9$$

$$x^2 + 5x - 3x - 15 - 9 = 0$$

$$x^2 + 2x - 24 = 0$$

$$(x+6)(x-4) = 0$$

$$x = -6 \text{ or } x = 4$$

Example 2

Solve for x :

$$\sqrt{x-2} + x = 4$$

$$\sqrt{x-2} = 4 - x$$

$$x-2 = (4-x)^2$$

$$x-2 = 16-8x+x^2$$

$$x^2 - 8x + 16 - x + 2 = 0$$

$$x^2 - 9x + 18 = 0$$

$$(x-3)(x-6) = 0$$

$$x = 3 \quad \text{or} \quad x = 6$$

after checking both solutions

$x = 3$ is the only solution

Example 3

Solve for x :

$$15x - 4 > 9x^2$$

$$15x - 4 - 9x^2 > 0$$

$$9x^2 - 15x + 4 < 0$$

$$(3x-1)(3x-4) < 0$$



$$\frac{1}{3} < x < \frac{4}{3}$$

Mathematics Scope Paper 2 November 2014

Claire M. Fletcher-Flinn



Mathematics Scope Paper 2 November 2014:

Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning. The authors are working in schools, universities, and continual science learning (CSL) settings around the world. They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking, sometimes direct observation and in other instances their memories. The result is a collection of research and essays that offer theory, techniques, outcomes, and models for the reader. Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms. Secondary students describe their ideas of chemistry and physics. Teacher educators use drawings to consider the progress of their undergraduates' understanding of science teaching and even their moral/ethical responses to teaching about climate change. Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted. A physician explains how the history of drawing has been a critical tool to medical education and doctor/patient communications. Each chapter contains samples, insights, and where applicable, analysis techniques. The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum. The sections are divided by the kinds of activities for which drawing has historically been used in science education: An instance of observation (Audubon), Linnaeus (A process: how plants grow over time, what happens when chemicals combine), Conceptions of what science is and who does it, Images of identity development in science teaching and learning. *Frontiers in the Acquisition of Literacy* Claire M.

Fletcher-Flinn, 2015-09-28 Learning to read and to spell are two of the most important cultural skills that must be acquired by children, and for that matter, anyone learning a second language. We are not born with an innate ability to read. A reading system of mental representations that enables us to read must be formed in the brain. Learning to read in alphabetic orthographies is the acquisition of such a system which links mental representations of visual symbols (letters in print, words) with pre-existing phonological sound and semantic comprehension (cognitive systems for language). Although spelling draws on the same representational knowledge base and is usually correlated with reading, the acquisition processes involved are not quite the same. Spelling requires the sequential production of letters in words, and at beginning levels, there may not be a full degree of integration of phonology with its representation by the orthography. Reading, on the other hand, requires only the recognition of a word for pronunciation. Hence, spelling is more difficult than reading, and learning to spell may necessitate more complete representations or more conscious access to them. The learning processes that children use to acquire such cognitive systems in the brain, and whether these same processes are universal across different languages and orthographies, are central theoretical questions. Most children learn to read and spell their language at the same time, thus the coordination of these two facets of literacy acquisition needs explication, as well as the effect of different teaching approaches on acquisition. Lack of progress in either reading and/or spelling is also a major issue of concern for parents and

teachers necessitating a cross disciplinary approach to the problem encompassing major efforts from researchers in neuroscience cognitive science experimental psychology and education The purpose of this Research Topic is to summarize and review what has been accomplished so far and to further explore these general issues Contributions from different perspectives are welcomed and could include theoretical computational and empirical works that focus on the acquisition of literacy including cross orthographic research

Child Development From Infancy to Adolescence Laura E. Levine, Joyce Munsch, 2023-05-12 Chronologically organized Child Development from Infancy to Adolescence Third Edition introduces topics within the field of child development through unique and engaging Active Learning opportunities

International Handbook of Research on Multicultural Science Education Mary M. Atwater, 2022-06-30 This handbook gathers in one volume the major research and scholarship related to multicultural science education that has developed since the field was named and established by Atwater in 1993 Culture is defined in this handbook as an integrated pattern of shared values beliefs languages worldviews behaviors artifacts knowledge and social and political relationships of a group of people in a particular place or time that the people use to understand or make meaning of their world each other and other groups of people and to transmit these to succeeding generations The research studies include both different kinds of qualitative and quantitative studies The chapters in this volume reflect differing ideas about culture and its impact on science learning and teaching in different K 14 contexts and policy issues Research findings about groups that are underrepresented in STEM in the United States and in other countries related to language issues and indigenous knowledge are included in this volume

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