

Math Articles For Kids To Read



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Forcing Awareness of Mathematics: Self, Mind, and Content in Dialogue Arthur B. Powell

In education, the ideas of 'forcing awareness' and, more generally, 'awareness' are due to Caleb Gattegno (1988, 1987, 1974, 1970), who has elaborated on the psychology and recursive property of awareness. Insistently and persuasively, he claims that "only awareness is educable." ¹ The notion of awareness and the pedagogical utility of forcing awareness inform my selection of pedagogical activities and techniques as well as how I reflect on my teaching practice. ² By structuring these activities and techniques in specific ways, I have found them useful for forcing awareness.

In this brief exploratory paper, I am concerned with communication or inner dialogue between the active self and the observing mind of a learner that results in awareness of mathematical ideas. I am especially interested in the role that forcing awareness can play in helping learners whose mathematical powers have been underdeveloped owing to material and moral conditions of oppressive societies.

Notwithstanding objectionable denotations and connotations of the verb 'to force,' Gattegno's definition of forcing awareness has compelling and useful pedagogical value. Gattegno makes clear that, for learners, learning or generating knowledge occurs not as a teacher narrates information but rather as learners employ their will to focus their attention to educate their awareness. Learners educate their awareness as they observe what transpires in a situation, as they attend to the content of their experiences. As a learner remains in contact with a transpiring experience, awareness proceeds from "a dialogue of one's mind with one's self" about the content of that which one experiences (1987, p. 6). One's will, a part of the active self, commits one to focus one's attention so that the mind observes the content of one's experience and, through dialogue with the self, becomes aware of particularities of one's experience. Specifically, in mathematics, the content of experiences, whether internal or external to the self, can be feelings, objects, relations among objects, and dynamics linking different relations (1987, p. 14) (my emphasis).

Forcing Awareness of Exponents

Educating awareness leads to generating mathematical knowledge. I will attempt to substantiate this claim and indicate specialized and generalized awarenesses with the following example: Suppose that one calculates the integral powers of 2 from 2 to 5 and onward (see Figure 1). In Figure 1, the exponential expressions or numerical objects in the first row are related to the objects in the second row.

Figure 1

2^2	2^3	2^4	2^5
↑	↑	↑	↑
4	8	16	32

The double-head arrows between rows indicate that each exponential expression in the first row is equivalent to the number in the second row. By focusing one's attention on and,

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Math articles for kids to read can be a fantastic resource for fostering a love of mathematics among young learners. In a world where STEM (science, technology, engineering, and mathematics) education is increasingly emphasized, engaging kids with math through interesting articles can spark their curiosity and enhance their understanding. This article will explore various topics regarding math articles for kids, including their benefits, types, and some recommended resources.

The Importance of Math Articles for Kids

Reading math articles can play a crucial role in a child's education for several reasons:

1. Enhancing Reading Skills

Math articles are not just about numbers and equations; they also involve comprehension and vocabulary. By reading these articles, kids can:

- Improve their reading fluency.
- Expand their math-related vocabulary.
- Develop critical thinking skills.

2. Making Math Fun

Many math articles are designed to be engaging and entertaining. They often incorporate puzzles, games, and real-life applications of mathematical concepts, making math feel less intimidating and more accessible.

3. Connecting Math to the Real World

Articles that link math concepts to everyday life can help kids understand the relevance of what they are learning. For example:

- Articles about budgeting can teach basic arithmetic.
- Discussions about measurements can foster an understanding of geometry.

Types of Math Articles for Kids

Math articles for kids can be categorized into several types, each serving different educational purposes:

1. Conceptual Articles

These articles explain fundamental math concepts in simple terms. They often include visual aids, such as diagrams and illustrations, to help children grasp complex ideas. Examples include:

- Introduction to fractions
- Understanding geometric shapes
- Basics of algebra

2. Application-Based Articles

Application-based articles show how math is used in real life. These articles can inspire kids to see the value of math in their daily activities. Topics might include:

- How math is used in cooking (e.g., measuring ingredients)
- The role of math in sports statistics
- Math in nature (e.g., patterns, symmetry)

3. Puzzles and Challenges

Puzzles and challenges engage kids in problem-solving and critical thinking. Articles that feature math puzzles, riddles, and brain teasers can be both fun and educational. These articles often encourage kids to apply their math skills creatively.

4. Biographical Articles

Biographical articles about famous mathematicians can inspire young readers. They can learn about the lives and contributions of significant figures in mathematics, such as:

- Euclid: The Father of Geometry
- Pythagoras and his theorem
- Ada Lovelace and the beginnings of computer science

5. Math in History

Exploring the history of mathematics can help kids appreciate the development of math over time. Articles might cover:

- The origins of counting systems
- Ancient civilizations and their contributions to math
- The evolution of mathematical tools and technologies

Recommended Resources for Math Articles

Here are some excellent resources where kids can find engaging math articles:

1. National Geographic Kids

National Geographic Kids offers a variety of articles that incorporate math with science and nature. Their articles often include fun facts, photographs, and interactive elements that can capture children's interest.

2. Math Is Fun

Math Is Fun provides a plethora of articles explaining math concepts in an easy-to-understand manner. The site includes puzzles, games, and even worksheets to reinforce learning.

3. Cool Math 4 Kids

Cool Math 4 Kids is a kid-friendly site filled with math articles, games, and lessons. The articles are designed to be entertaining while educating kids about various math topics.

4. PBS Kids

PBS Kids features math-related articles and videos that help children learn through storytelling and interactive experiences. The content is designed to be engaging and age-appropriate.

5. Scholastic News

Scholastic News offers articles that cover current events while incorporating math concepts. The articles are designed for classroom use and can help kids see the connection between math and the world around them.

Tips for Encouraging Kids to Read Math Articles

Encouraging kids to read math articles can be a rewarding experience. Here are some strategies to make it more enjoyable:

1. Choose Interesting Topics

Allow kids to select topics that pique their interest. Whether they love sports, nature, or puzzles, finding articles that relate to their hobbies can motivate them to read.

2. Discuss What They Read

After reading an article, engage kids in a discussion. Ask them questions about what they learned, encouraging them to think critically about the material.

3. Incorporate Activities

Follow up reading with hands-on activities related to the article. For instance, if they read about measuring ingredients, have them bake something together to practice those skills.

4. Create a Reading Routine

Establish a regular routine for reading math articles, such as during a specific time each week. This can help create a habit and make math reading a fun activity rather than a chore.

5. Use Visual Aids

Visual aids like charts, graphs, and videos can enhance understanding and make the reading experience more enriching. Encourage kids to visualize concepts as they read.

Conclusion

In conclusion, **math articles for kids to read** are valuable tools for enhancing mathematical understanding and fostering a love for the subject. By providing engaging content that connects math to real life, these articles can help demystify math and make it an exciting subject for young learners. With the right resources and encouragement, kids can develop a strong foundation in math that will benefit them throughout their educational journey and beyond.

Frequently Asked Questions

What are some engaging math articles for kids?

Some engaging math articles for kids include topics like 'The Magic of Fibonacci Numbers', 'Exploring Geometry in Nature', and 'Fun with Fractions: Pizza Party Math'.

How can math articles help kids improve their math skills?

Math articles can enhance kids' understanding by presenting complex concepts in relatable ways, offering real-life applications, and encouraging critical thinking through problem-solving.

What age group is suitable for reading math articles?

Math articles can be tailored for various age groups, typically ranging from elementary school students (ages 5-10) to middle school students (ages 11-14), depending on the complexity of the content.

Where can I find math articles specifically designed for kids?

You can find math articles for kids on educational websites like National Geographic Kids, Scholastic, and Mathigon, as well as in children's magazines and online educational platforms.

What topics in math are most appealing to children?

Topics like patterns, puzzles, games, and math in art and music tend to be most appealing to children, making math relatable and fun.

How do math articles encourage a love for math in children?

Math articles can spark interest by showcasing the fun side of math, telling stories that involve math concepts, and connecting math to kids' everyday lives and interests.

Can math articles help with standardized test preparation for kids?

Yes, math articles can help with standardized test preparation by reinforcing concepts, providing practice problems, and familiarizing kids with the types of questions they may encounter.

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Le mathématicien autrichien Hans Hahn étudie à l'université de Vienne où il est très ami avec 3 autres futurs grands scientifiques, Paul Ehrenfest, Heinrich Tietze et Herglotz. ... Afficher sa ...

Testy matematyczne

Testy dla uczniów i nie tylko. Sprawdź swoją wiedzę matematyczną.

Exercices corrigés - Calcul exact d'intégrales

Déterminer toutes les primitives des fonctions suivantes, sur un intervalle bien choisi : $f_1(x) = 5x^3 - 3x + 7$ et $f_2(x) = \dots$

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Exercices corrigés - Déterminants

Ressources de mathématiquesOn considère les matrices suivantes : $T = \begin{pmatrix} 1 & 0 & 0 & 3 & 1 & 0 & 0 \\ -2 & 1 & \dots \end{pmatrix}$ et $A = \begin{pmatrix} 1 & -10 & 11 & -3 & 6 & 5 & -6 & 12 & 8 \end{pmatrix}$. Déterminer la matrice $B = TA$ et calculer le déterminant de ...

Exercices corrigés - Intégrales curvilignes

On pourra d'abord montrer que la forme différentielle est fermée, et utiliser le théorème de Poincaré. Pour la recherche des primitives, on résoudra successivement les équations aux ...

Exercices corrigés - Intégrales multiples

On commence par écrire le domaine d'une meilleure façon. On a en effet :

Exercices corrigés - Équations différentielles linéaires du premier ordre ...

Exercices corrigés - Équations différentielles linéaires du premier ordre - résolution, applications

Exercices corrigés - Exercices - Analyse

Analyse complexe Formules intégrales de Cauchy - Inégalités de Cauchy - Applications Conditions de Cauchy-Riemann Grands théorèmes : principe du maximum, application ...

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