



## **FINANCIAL EDUCATION: A EVERYDAY APPROACH. *FINANCIAL EDUCATION: AN APPROACH TO EVERYDAY LIFE.***

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### **SUMMARY**

The importance of exploring different calculation strategies and promoting meaningful learning is highlighted, as recommended by the National Curricular Parameters (PCNs). Despite this, many students face difficulties at the end of Elementary School, demonstrating a lack of understanding of mathematical concepts and their practical applicability. The Financial Education proposal aims to fill this gap, stimulating skills such as mental calculation, estimation and analysis of the reasonableness of results. However, the constant change of context in the exercises can make it difficult for students to understand. It is then proposed to use tasks that stimulate the production of meanings by students, allowing different resolution strategies and promoting discussion in the classroom. Therefore, Financial Education as a transversal theme in the Mathematics curriculum aims to prepare students to face real-world challenges, promoting a broader and deeper understanding of mathematical concepts.

**Key words:** Education. Financial. World.

### **ABSTRACT**

This highlights the importance of exploring different calculation strategies and promoting meaningful learning, as recommended by the National Curriculum Parameters (PCNs). Despite this, many students face difficulties at the end of elementary school, showing a lack of understanding of mathematical concepts and their practical applicability. The Financial Education proposal aims to fill this gap by stimulating skills such as mental calculation, estimation and analysis of the reasonableness of results. However, the constant change of context in the exercises can make it difficult for students to understand. We therefore propose the use of tasks that stimulate the production of meanings by the students, allowing for different solving strategies and promoting discussion in the classroom. In this way, Financial Education as a cross-cutting theme in the mathematics curriculum aims to prepare students to face real-world challenges, promoting a broader and deeper understanding of mathematical concepts.

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### **1. INTRODUCTION**

The importance of exploring different calculation strategies and promoting meaningful learning is highlighted, as recommended by the National Curricular Parameters (PCNs). Despite this, many students face difficulties at the end of Elementary School, demonstrating a lack of understanding of mathematical concepts and their practical applicability. The Financial Education proposal aims to fill this gap, stimulating skills such as mental calculation, estimation and analysis of the reasonableness of results. At the

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### **2 THEORETICAL FRAMEWORK**

#### **2.1 Financial Education in an Interdisciplinary Approach**



Financial Mathematics Education represents a crucial approach in contemporary teaching, rooted in several theoretical and practical pillars that aim to enable students to have a deeper understanding of mathematical concepts and their application in the financial context. This theoretical framework encompasses a series of interdisciplinary principles and pedagogical strategies designed to promote meaningful and lasting learning.

Firstly, the interdisciplinary approach stands out as a fundamental basis of Financial Mathematics Education. Integrating mathematical concepts with real-world financial situations is essential to providing students with a comprehensive and applicable understanding of mathematical principles. By connecting the learning of mathematics with its practical use in the financial world, students are encouraged to develop a holistic and meaningful view of the concepts studied.

Furthermore, several learning theories play a central role in the foundation of Financial Mathematics Education. Theories such as constructivism and meaningful learning emphasize the importance of actively involving students in the construction of knowledge, through problem solving and the practical application of concepts. This pedagogical approach aims to not only convey information but also develop cognitive and metacognitive skills that enable students to think critically and make informed decisions.

Another relevant aspect is the development of skills, both mathematical and financial. Financial Mathematics Education seeks to equip students with a variety of skills, including numerical competencies, logical reasoning skills, decision-making abilities and problem-solving skills. These skills are essential in enabling them to manage their personal finances responsibly and make informed financial decisions throughout their lives.

Furthermore, the integrated curriculum emerges as a key strategy in the implementation of Financial Mathematics Education. The careful selection and organization of content and activities are essential to address both relevant mathematical and financial concepts, ensuring a comprehensive and contextualized understanding of the topics. This flexible curricular approach allows educators to adapt mathematics teaching according to students' needs and interests, making learning more relevant and meaningful.

Finally, the use of technology and innovative teaching resources plays a crucial role in teaching Financial Mathematics Education. Tools such as financial apps, simulations, and educational games offer unique opportunities to enrich the learning experience by making mathematical concepts more accessible and engaging for students. These resources provide a practical and dynamic approach to teaching financial mathematics, promoting greater engagement and understanding on the part of students.

In short, Financial Mathematics Education represents an essential field of study and pedagogical practice to equip students with the skills and knowledge necessary for active and informed participation in contemporary society. By integrating mathematical concepts with real-world financial situations, promoting meaningful and applicable learning, and utilizing a variety of pedagogical strategies and innovative resources, Financial Mathematics Education prepares students to face financial challenges and make responsible decisions throughout their lives .

## 2. MATERIAL AND METHOD

### Preparation of Activities:

To implement Financial Mathematics Education activities, we suggest a practical and interactive approach, aiming to engage students effectively. Firstly, it is essential to carefully plan each class session, considering the specific objectives to be achieved and the resources necessary.

### Necessary resources:

Prepare relevant teaching materials, such as activity sheets, themed board games, simple calculators and examples of everyday financial situations. Additionally, use audiovisual resources, such as educational videos and slide presentations, to enrich theoretical explanations and make learning more dynamic.

### Organization of Sessions:

Each session must be structured to promote a logical learning sequence, combining moments of theoretical introduction with practical activities and group discussions. Maintain a balance

brio between the transmission of knowledge and the practical application of concepts.

### Suggested Activities:

Session 1: Start with an engaging introduction to the importance of Financial Mathematics Education, highlighting basic concepts such as money, interest and budgeting. Use simple and contextualized examples to facilitate student understanding.

Session 2: Explore the calculation of percentages and their application in real financial situations, such as discounts on purchases. Propose practical activities that allow students to calculate percentages independently, stimulating logical reasoning and problem solving.

Session 3: Introduce themed board games that cover concepts of profit, loss and investment. Promote interaction between students, encouraging teamwork and the practical application of acquired knowledge.

Session 4: Hold a group discussion on personal financial planning, exploring topics such as savings, investment and conscious consumption. Encourage students to share their experiences and reflect on their financial choices.

Session 5: Finish the project with a final assessment, including solving financial math problems and reflecting on learning throughout the project. Encourage students to apply the knowledge acquired in everyday situations.

### Assessment:

Evaluate students' progress through classroom observations, analysis of activities carried out and feedback collected during group discussions. Additionally, administer a written test at the end of the project to assess understanding of the concepts covered and the development of financial mathematical skills.

### Ethical Considerations:

Ensure that all activities are carried out in accordance with the ethical principles of scientific research, respecting the rights of participants and ensuring the confidentiality of information. Prioritize students' well-being and academic development at all stages of the project.

## 3. RESULTS AND DISCUSSION

The implementation of Financial Mathematics Education promises a series of tangible and beneficial results, not only in the academic context, but also in the practical lives of students. The following expected developments stand out:

**Raising Academic Performance:** The practical and contextualized approach to financial concepts in Mathematics tends to boost students' performance, providing them with a more solid and applicable understanding of mathematical principles.

**Financial Empowerment:** By acquiring calculation and financial analysis skills, students become more capable of managing their own finances, planning budgets and making informed economic decisions.

**Encouragement of Critical Thinking:** Through challenging activities and real-world problems, students are encouraged to develop critical and analytical thinking skills, enabling them to evaluate different financial options in a rational and reasoned way.

**Promoting Autonomy and Responsibility:** Financial education not only teaches students how to deal with money, but also empowers them to assume financial responsibilities, promoting a greater autonomy and independence in your financial decisions.

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**Fostering Collaboration and Cooperation:** Group activities and cooperative games not only reinforce concepts learned, but also encourage collaboration and teamwork, essential skills for success in the financial world and beyond.

**Raising awareness about Financial Education:** The project aims not only to transmit financial knowledge, but also to raise awareness among students about the importance of financial education in their lives, highlighting the benefits of solid financial management for individual and collective well-being.

**Preparing for the Future:** Last but not least, Financial Mathematics Education prepares students for real-world financial challenges, empowering them to make informed decisions and

responsible people who will shape your financial future.

In this way, the expected results and discussions reflect not only the effectiveness of the approach, but also its transformative impact on students' lives, enabling them to thrive in an increasingly complex and financially challenging world.

## FINAL CONSIDERATIONS

Given the in-depth analysis and practical implementation of Financial Mathematics Education, it is clear that this approach not only enriches the school curriculum, but also promotes a series of significant benefits for students. Final considerations highlight the importance and positive impact of this initiative on students' comprehensive education.

Firstly, it is crucial to recognize that Financial Mathematics Education goes beyond simply teaching numerical concepts; it empowers students to face real-world financial challenges with confidence and competence. By promoting a deeper understanding of mathematical principles applied to personal finance, this approach empowers them to make informed and responsible decisions throughout their lives.

Furthermore, Financial Mathematics Education encourages critical thinking and problem solving, essential skills not only for academic success, but also for personal and professional success. By facing complex financial challenges in a safe educational environment, students develop the ability to analyze situations, evaluate options, and make informed decisions.

Another important point to highlight is the role of Financial Mathematics Education in promoting students' autonomy and responsibility in relation to their finances. By empowering them to manage their money effectively, this approach prepares them for real-world challenges, enabling them to take control of their financial lives from an early age.

Finally, the final considerations highlight the continued importance of integrating Financial Mathematics Education into the school curriculum. As students face an increasingly complex and financially challenging world, it is essential that they are given the tools they need to thrive and succeed. Therefore, investing in Financial Mathematics Education is investing in the financial and personal future of our students.

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