ranslated from Portuguese to English - www.onlinedoctranslator.com :ific Journal O Saber.

ISSN: 2675-9128. Sao Paulo-SP.

Year III, v.3, ed. 1, Jan./Jul. 2023. DOI: 10.51473/ed.al.v3i1.542 | submission: 06/13/2023 | accepted: 06/18/2023 |

publication: 06/25/2023

MATHEMATICAL MINDSET AND LIFE PROJECT MATHEMATICAL MENTALLY AND LIFE PROJECT

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SUMMARY

The summary of this article highlights the importance of a mathematical mindset and life plan for personal and professional success. A growth mindset around math can help people overcome mental blocks and focus on the learning process, while a life blueprint can provide a purpose for developing math skills. By adopting a growth mindset around math and aligning the use of math with personal and professional goals, people can find purpose and an emotional connection to math, and develop valuable skills that will help them achieve their goals. This article highlights case studies that show that those who adopted a growth mindset towards math performed significantly better than those who believed their abilities were fixed. They also reported higher levels of motivation and confidence around maths. In summary, this article highlights how mathematical mindset and life design are complementary and important areas for personal and professional success. **Key words**: Mathematical mindset. Life project. Apprenticeship. Skills development.

Abstract

The abstract in this article highlights the importance of a mathematical mindset and life plan for personal and professional success. A growth mindset toward mathematics can help people overcome mental blocks and focus on the learning process, while a life plan can provide a purpose for developing mathematical skills. By adopting a growth mindset toward mathematics and aligning the use of mathematics with personal and professional goals, people can find purpose and an emotional connection to mathematics, and develop valuable skills that will help them achieve their goals. This article highlights case studies showing that those who adopted a growth mindset toward mathematics performed significantly better than those who believed their skills were fixed. They also reported higher levels of motivation and confidence towards mathematics. In summary, this article highlights how mathematical mindset and life design are complementary and important areas for personal and professional success. **Keywords:** Mathematical mindset. Life project. Learning. Skill development.

1. INTRODUCTION

Mathematics is often seen as a difficult and challenging subject, and many people believe they do not have natural skills in the field. However, a mathematical mindset can have a huge impact on people's success in mathematics and other areas of their lives. The growth mindset, proposed by Carol Dweck, suggests that skills can be developed and improved

over time, and are not just innate. In relation to mathematics, this means that people can develop your skills instead of believing that they are fixed and unchanging.

Furthermore, the life project can provide purpose and meaning for development. of mathematical skills. By aligning the use of mathematics with personal and professional goals, people can find purpose and an emotional connection with mathematics, as well as develop valuable skills that will help them achieve their goals.

This article highlights the importance of a mathematical mindset and life plan for personal and professional success. Firstly, Boaler and Dweck's theories on mathematical mindset will be presented, highlighting how growth mindset can help people overcome mental blocks and become

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focus on the learning process. Next, it will be discussed how life design can provide purpose and meaning for developing mathematical skills, as well as providing a long-term vision for personal and professional development.

Case studies will be presented that show that those who adopted a growth mindset towards mathematics performed significantly better than those who believed their abilities were fixed. They also reported higher levels of motivation and confidence around maths. Additionally, studies show that life design can have a significant impact on personal and professional success by providing purpose and meaning for skill development.

In summary, this article highlights how mathematical mindset and life design are complementary and important areas for personal and professional success. By adopting a growth mindset around math and aligning the use of math with personal and professional goals, people can find purpose and an emotional connection to math, and develop valuable skills that will help them achieve their goals.

2. MATHEMATICAL MENTALITY AND LIFE PROJECT

2.1. THE IMPORTANCE OF MATHEMATICAL MENTALITY IN THE LIFE PROJECT

Mathematics is an essential subject in many areas of life, from science and technology to finance and business. However, many people have an aversion to mathematics or feel that they are not good at dealing with numbers. This fear or aversion can lead to a fixed mindset towards mathematics, where the person believes that they cannot change their mathematical ability or ability. This can affect not only your performance in math, but also in other areas of life. This is where the importance of a mathematical mentality comes into play in your life project. (GOSS, 2018).

Mathematical mindset refers to the belief that mathematical skills can be developed and improved with time and effort. This concept was popularized by researcher Jo Boaler, from Stanford University, who carried out several studies on the subject. The mathematical mindset is based on the theory of Carol Dweck, who studies the psychology of motivation and success. According to Dweck, there are two basic mindsets: the fixed mindset and the growth mindset. (BURN, 2017).

The fixed mindset believes that abilities are immutable, that people are born with a certain amount of talent and that this is what determines their success or failure. On the other hand, the growth mindset believes that skills can be developed and improved over time, through effort, practice and perseverance. (MANGELS, 2018).

The mathematical mindset is based on the growth mindset. This means that by adopting a mathematical mindset, people believe that their mathematical ability can be developed and improved with time and effort. They do not see themselves as "good" or "bad" at mathematics, but as people who are in a constant learning process.

This mindset can have a significant impact on people's lives, especially their life project. When someone adopts a mathematical mindset, they become more likely to face challenges and persevere through them. He sees failure as part of the learning process and not as a sign of inability. This can be especially important when it comes to achieving long-term goals, like earning a college degree, starting a business, or changing careers. (MANGELS, 2018).

Additionally, a mathematical mindset can help people become more confident in their abilities and better able to make informed decisions. Mathematics is a powerful tool for making decisions in many areas of life, from personal finance to science and technology. When people

people have confidence in their math skills, they are more likely to make informed decisions and feel more empowered in their choices.

However, the mathematical mindset is not something that people simply adopt overnight. It requires effort and practice to develop. This may include working with a tutor or teacher for extra help, taking time to practice math problems, or signing up for math courses or workshops. Additionally, it is important to change the way we think about math skills and the way math is taught. (YEAGER, 2012).

Jo Boaler argues that mathematics should be taught in a more open, exploratory and creative way, rather than simply teaching students formulas and procedures. This can help change your mindset

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of students towards mathematics and make them more likely to adopt a growth mindset. Furthermore, it is important to remember that mathematics is a discipline that can be applied in many areas of life, such as solving everyday problems, financial planning and even games and leisure activities.

In short, a mathematical mindset is a valuable skill that can help people achieve their goals and make more informed decisions in their lives. By adopting a growth mindset toward math, people are more likely to face challenges, persevere through them, and see failure as part of the learning process. While it may take time and effort to develop this mindset, the long-term rewards are invaluable. (GUNDERSON, 2018).

2.2. DEVELOPING THE MATHEMATICAL MENTALITY AS PART OF THE LIFE PROJECT

Mathematics is a subject that is often feared and avoided by many people. However, mathematics is a valuable skill that can be applied in many areas of life, from everyday problems to financial planning. Furthermore, a mathematical mindset can be a fundamental skill for success in many areas of life. (HWANG, 2017).

Mathematical mindset refers to the way people think and feel about mathematics. It can be divided into two categories: fixed mindset and growth mindset. Fixed mindset is the belief that mathematical abilities are innate and that some people simply have more talent for mathematics than others. On the other hand, growth mindset is the belief that mathematical skills can be developed with effort and practice.

Psychologist Carol Dweck and educator Jo Boaler argue that a growth mindset is essential for success in math and other areas of life. A growth mindset can help people face challenges, persist through difficulties, and see failure as a learning opportunity. On the other hand, a fixed mindset can lead to an aversion to math, fear of failure, and low self-esteem. (PAUNESKU, 20015).

So, how do you develop a growth mindset in relation to mathematics as part of your life plan? One important way is to change the way we think about math skills and the way math is taught. Instead of simply teaching students formulas and procedures, mathematics should be taught in a more open, exploratory and creative way.

Additionally, it is important to dedicate time and effort to practicing math problems. This may include working with a tutor or teacher for extra help, signing up for math courses or workshops, and finding creative ways to apply math in everyday life. For example, you can learn how to calculate average monthly expenses to improve financial planning or calculate average travel time to better organize your time. (SCHMADER, 2008).

Another way to develop a growth mindset around math is through problem solving. Problem solving can help people develop skills such as critical thinking, creativity and perseverance. When facing mathematical challenges, people can learn to see failure as a learning opportunity and persevere through difficulties.

Additionally, it is important to change the way you think about success in mathematics. Success in mathematics should not only be measured by the grade or grade obtained, but also by personal progress and learning along the way. By defining success in terms of learning and progress, people are more likely to adopt a growth mindset when it comes to math and other areas of life. (SMITH, 2018).

Instead of just focusing on the end result, it's important to focus on the learning process and skill development. This can help create a culture of continuous learning and to promote a growth mindset in relation to all areas of life.

Another important way to develop a growth mindset around math is through collaboration and teamwork. Working with others can help you learn new perspectives and strategies, as well as share ideas and solutions. This can be especially helpful for people who struggle with math, as they can benefit from other people's experience. (HULLE-MAN, 2009).

Additionally, it is important to create a positive and supportive learning environment. This can include praise and constructive feedback, as well as creating opportunities to practice and develop skills. By creating a supportive environment, people are more likely to adopt a growth mindset and

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persist through difficulties.

Finally, it is important to remember that developing a mathematical mindset is an ongoing process that takes time and effort. It is normal to have difficulties and fail at times, but it is important to continue to strive and persevere. By adopting a growth mindset toward math and other areas of life, people can develop valuable skills that will help them achieve their goals and succeed in their personal and professional lives. (VAN, 2017).

2.3. THE IMPACT OF MATHEMATICAL MENTALITY ON LIFE PROJECT: CASE STUDIES BASED ON BOALER AND DWECK THEORIES

Case studies based on the theories of Jo Boaler and Carol Dweck show the positive impact of a mathematical mindset on the life plans of individuals in different contexts. These theories suggest that how people think about mathematics and their own potential can influence their ability to learn and succeed in this area. (GOOD, 2002).

A case study involving high school students found that those who adopted a growth mindset toward math performed significantly better than those who believed their abilities were fixed. They also reported higher levels of motivation and confidence around maths.

Another study involving teachers found that those who adopted a growth mindset toward math were more likely to try new teaching approaches and support students who struggle with math. They also reported greater job satisfaction and a greater likelihood of staying in the profession. (BLACKWELL, 2014).

Furthermore, Boaler's theory emphasizes the importance of creativity and experimentation in learning mathematics. A case study involving elementary school students found that those who participated in creative math classes saw a significant improvement in performance on standardized tests, as well as an increase in confidence and motivation around math.

These case studies suggest that a mathematical mindset can have a significant impact on the life plans of individuals in different contexts, from students to teachers and professionals in different areas. By adopting a growth mindset around math and focusing on the process of learning and developing skills, people can overcome mental blocks and achieve their personal and professional goals. (BOALER, 2014).

Adopting a growth mindset when it comes to math is key to overcoming mental blocks and achieving goals in different aspects of life. When people believe their abilities are fixed, they may feel unable to improve and can easily give up when they encounter challenges. However, when people believe that their skills can be developed through effort and practice, they are more likely to persevere in the face of challenges and seek out learning opportunities.

By focusing on the process of learning and developing skills, people can acquire the skills they need to achieve their personal and professional goals. This involves learning from mistakes and trying new approaches to solving problems, rather than just focusing on getting the end result right. By adopting this mindset, people are more likely to achieve their goals in a sustainable way, rather than simply achieving immediate results. (BOALER, 2016).

In short, adopting a growth mindset around math and life design can help people overcome mental blocks, develop valuable skills, and achieve their long-term personal and professional goals. Believing that math skills are fixed and innate can lead to adopting a limiting mindset and lacking motivation and confidence to learn and progress. On the other hand, believing that math skills can be developed through effort and practice can lead to adopting a growth mindset and engaging in learning activities.

Studies conducted by researchers such as Jo Boaler and Carol Dweck have shown that students who adopted a growth mindset toward math performed significantly better than those who believed their abilities were fixed. These students also reported higher levels of motivation and confidence around mathematics, which can lead them to persist in their studies and overcome difficulties. (BOALER, 2019).

It is important to highlight that a growth mindset in relation to mathematics can be developed by anyone, regardless of their current abilities. By focusing on effort and practice rather than immediate results, you can acquire new skills and competencies over time.

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Furthermore, it is possible to transform the way you think about mathematics and make it a more meaningful and rewarding part of your life project.

2.4. THE MATHEMATICAL MENTALITY AND THE LIFE PROJECT ARE DEEPLY INTERCONNECTED AND CAN BRING MANY INSIGHTS AND BENEFITS WHEN STUDIED TOGETHER

The mathematical mindset can be seen as a key aspect of life design, since many people need mathematical skills to achieve their personal and professional goals. For example, the ability to make financial calculations is essential for planning and managing a personal budget or for managing a company's finances. Additionally, many careers, such as engineering, technology, and science, require a high level of mathematical skills. (BOALER, 2016).

On the other hand, life design can influence a person's mathematical mindset. When people have a clear vision of their goals and what they want to accomplish in life, they may feel more motivated to develop their math skills to achieve them. Additionally, life design can help people find purpose or an emotional connection to mathematics, which can make learning more meaningful and rewarding. (DWECK, 2005).

By studying math mindset and life design together, people can learn how to develop math skills to achieve their goals and how to use math to help achieve a more meaningful and fulfilling life. A growth mindset around math can help people overcome mental blocks and focus on the learning process, while a life blueprint can help guide learning activities and give purpose to the use of math skills. (DWECK, 1988).

In short, mathematical mindset and life design are interconnected areas that can bring many insights and benefits to those who study them. By adopting a growth mindset around mathematics and aligning the use of mathematics with personal and professional goals, people can develop valuable skills and build more meaningful and fulfilling lives.

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In short, mathematical mindset and life design are interconnected areas that can bring many insights and benefits to those who study them. By adopting a growth mindset around mathematics and aligning the use of mathematics with personal and professional goals, people can develop valuable skills and build more meaningful and fulfilling lives.

3. CONCLUSION

The mathematical mentality and the life project are two areas that are closely linked and can bring many benefits to those who study them together. A growth mindset around math can help people overcome mental blocks and focus on the learning process, while a life blueprint can provide a purpose for developing math skills.

By adopting a growth mindset around math, people can learn to see mistakes as learning opportunities, seek feedback, and develop their math skills.

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over time. This can help increase motivation and confidence around maths, making learning more meaningful and rewarding.

Additionally, by aligning the use of mathematics with personal and professional goals, people can find purpose and an emotional connection with mathematics. For example, using math to manage personal finances can help you achieve the goal of becoming financially stable, while using math in a technology career can help you achieve the goal of working in a field you love.

Ultimately, the study of mathematical mindset and life design can provide a valuable skill set for those who wish to develop mathematical skills to achieve their personal and professional goals. These skills include the ability to persevere in the face of challenges, the willingness to learn from mistakes, the ability to seek feedback, and the ability to align learning activities with personal and professional goals.

In short, mathematical mindset and life design are two areas that can help people develop valuable skills and build a more meaningful and satisfying life. By adopting a growth mindset around math and aligning the use of math with personal and professional goals, people can find purpose and an emotional connection to math, and develop valuable skills that will help them achieve their goals.

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