Early Childhood Education. Symptoms and signs

1. Problems learning to count. For example, he cannot remember the numbers in the correct order or when asked for four units he is only able to take ahandful, instead of counting them.

2. Difficulty understanding math-related terms. For example, "bigger," "smaller."

3. He cannot understand the relationship between number and quantity.



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https://www.smartick.es/blog/educacion/necesidades educational-especiales/que-es-discalculia/

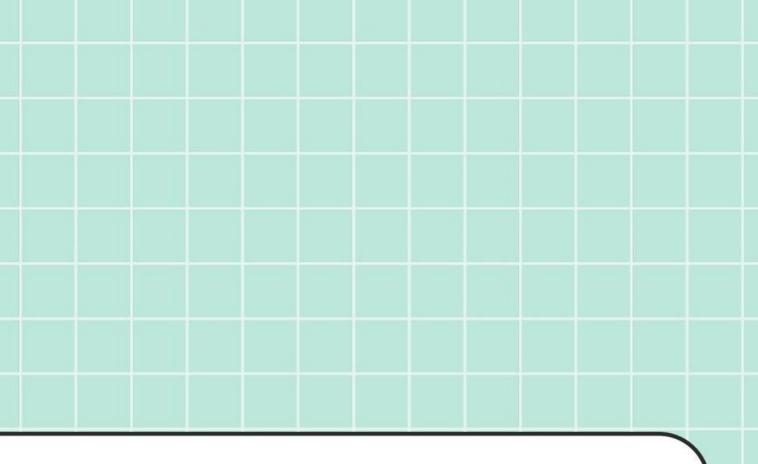


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Warning signs on the Stage Primary



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Primary education. Symptoms and signs

- Difficulty identifying +, –and other arithmetic symbols, and them correctly.
- Learn and remember number facts (for example: 2+8, 4×7).
- You can continue to use your fingers to count instead of u more advanced strategies such as mental math.
- Understand words related to mathematics, such as "great than" and <
- Problems with visual-spatial representations of numbers, like number lines.
- With the value of the position of the numbers (ones, tens, hundreds).
- Problems writing nos or putting them in the correct colum written calculations.



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needs/what-is-dyscalculia/



Warning signs at the stage of PD

ü Uses fingers a lot to count instead of using more advanced strategies (like mental math). ü Difficulty counting backwards ü It is very difficult for you to make approximate calculations ü It is very difficult for him to manipulate large figures, such as hundreds or thousands ü Has transcription errors, for example, when writing dictated numbers ü Has difficulty learning and remembering basic numerical facts such as number bonds, for example, 6 + 4 = 10. ü Lack of understanding of the signs +, -, x, : Or confuse these mathematical symbols ü You have difficulty recognizing that 3+5is the same as 5+3or you may not be able to solve 3+26 -26 without calculating ü Difficulty copying or drawing shapes; identify figures from another angle or perspective Source: Maths Explained. Quoted in The dyslexia association

https://www.dyslexia.uk.net/specific-learning-difficulties/dyscalculia/the-signs-of-dyscalculia/

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Dyslexia Warning signs at the stage of PD

ü Has problems with place value, often puts numbers in the column incorrect.

ü You may not understand mathematical language or be able to devise aplan to solve a mathematical problem.

ü Has difficulty understanding mathematical phrases such as: > and <

üHas trouble keeping score in sports or games.

ü Avoid situations that require understanding numbers, such as playing games that involve mathematics: winning/losing games in agame ü Difficulty calculating the total cost of items and you may run out of money ü As time passes, it is common to manifest anxiety or blockage towards mathematical tasks since there is afeeling of failure (Beginning at 6years) ü Low performance in Mathematics.



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Warning signs at the stage of PD

ü Difficulties recognizing arithmetic signs.

ü Fragility in the use of arithmetic facts according to age: simple additions

(2+4) and multiplication tables.

ü Exaggerated dependence on fingers to count.

ü Poor mental calculation and mechanical memory.

ü Confusions in the alignment of numbers in acolumn.

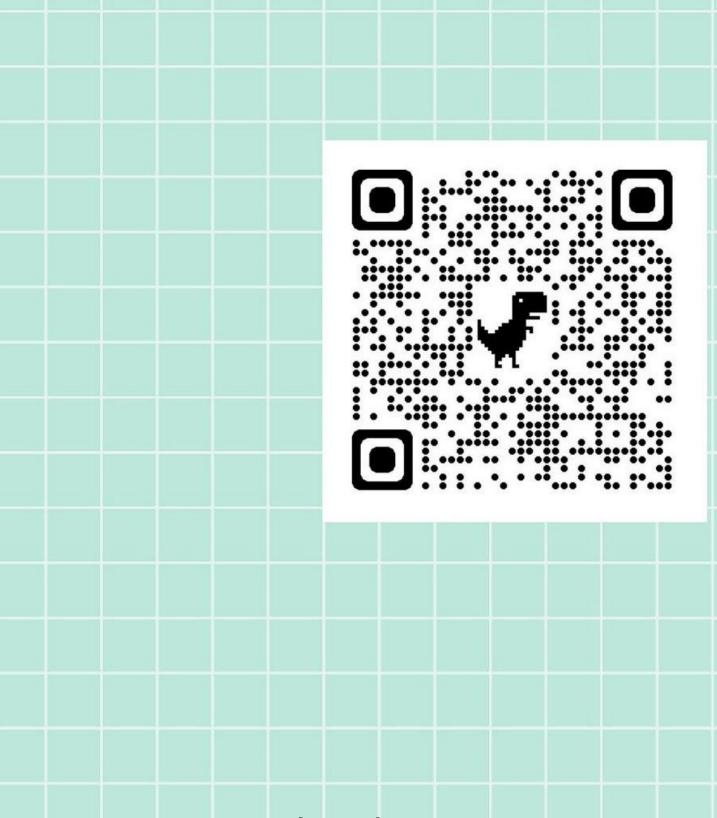
ü Lack of acquisition of the base system 10.

üErrors in the conversion of units of measurement.
ü Errors in logic or reasoning: incoherent results.
üDifficulties in understanding problem statements.
üThey may have problems understanding time or locating themselves spatially.

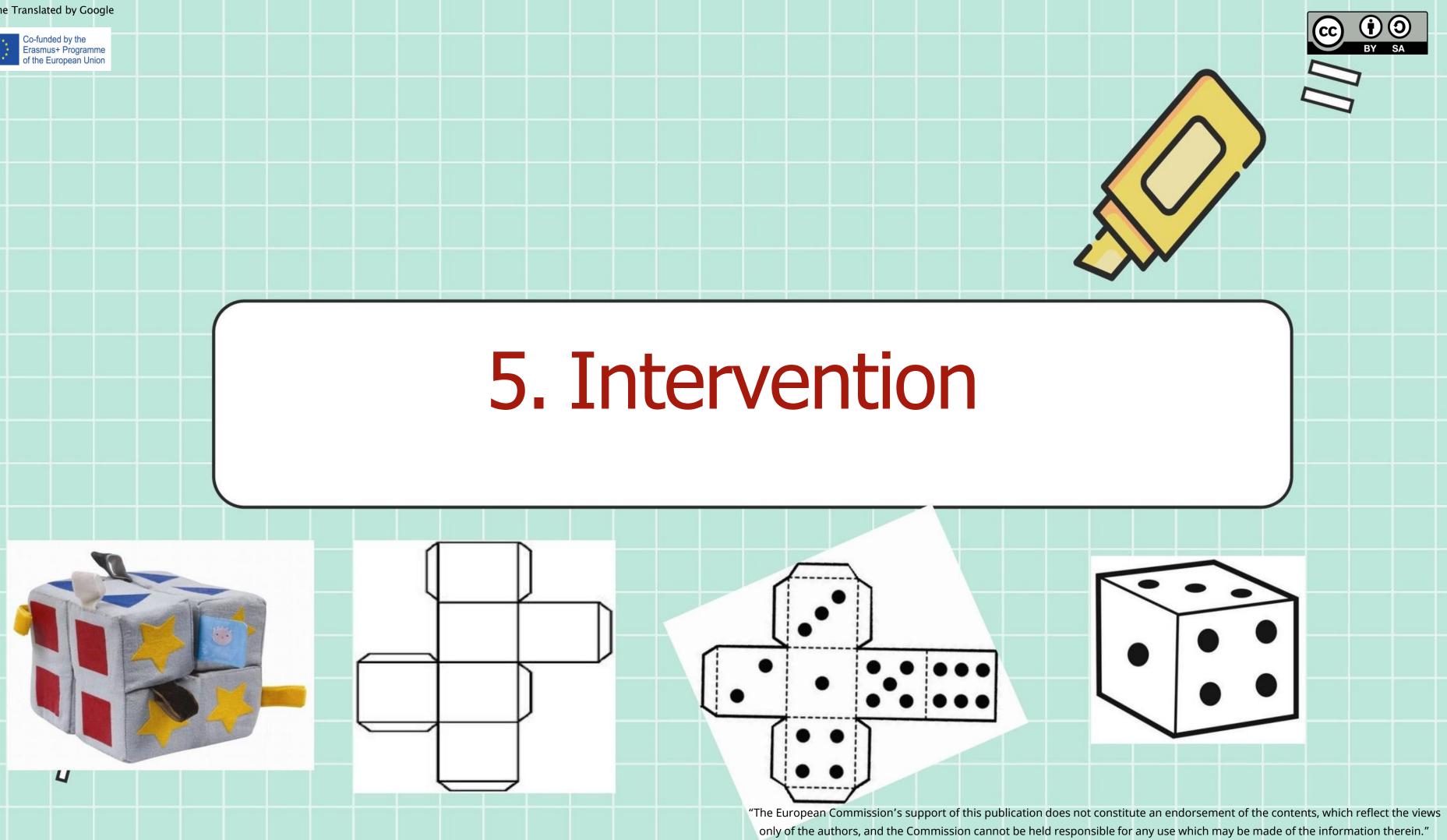
üThey verbalize their difficulties, especially from the 3rd grade onwards: "I can't"I'm good at math," "I don't like math."

https:// sites.google.com/ view/ discalculia/ p%C3%A1gina-principal?authuser=0











Response to Intervention (RtI) Model



Intensive measures and supports- PTP

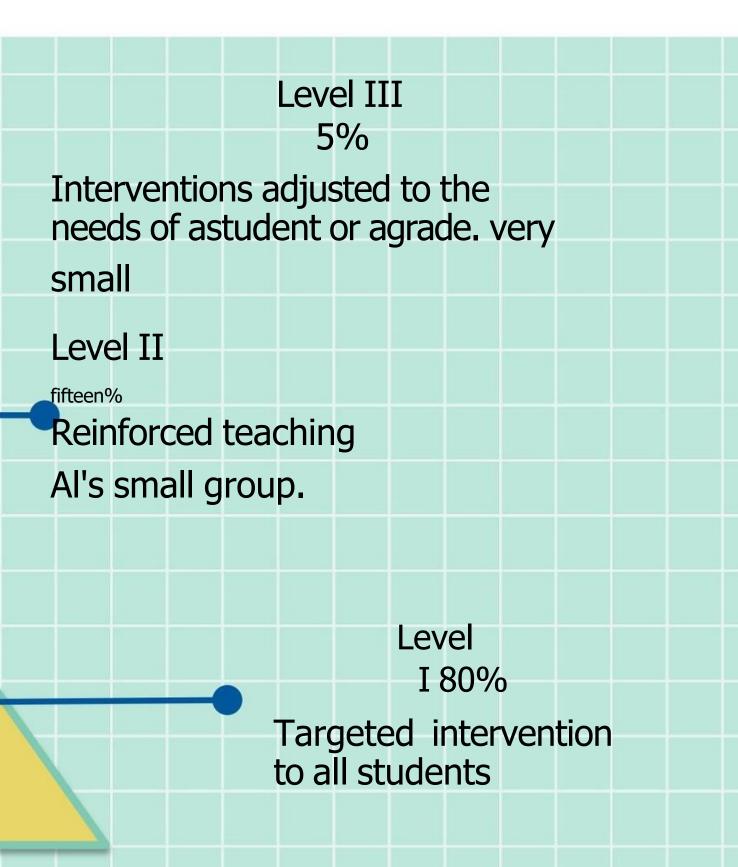
Additional, complementary measures and supports Actions linked to classroom

activities

Universal measures and supports **Diversity attention strategies**

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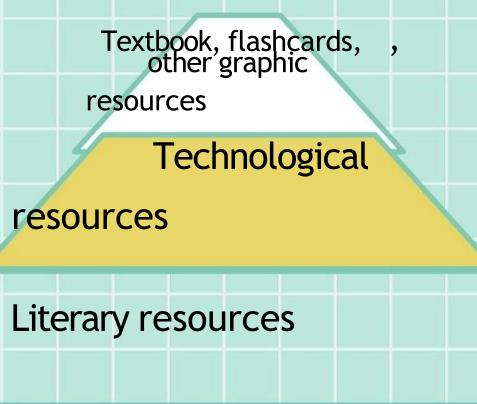




The Pyramid of Mathematics Education



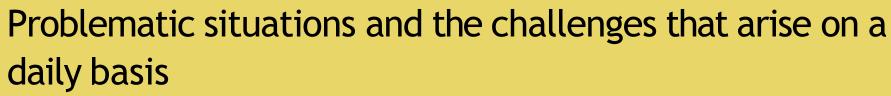
student organizations



Games

Manipulative materials

Contexts of everyday life



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Interaction,

negotiation and

dialogue in the classroom



10. Promotes meaningful learning

9. The playful aspect of mathematics brings closer to the reality of the students

8. Facilitates the socialization process and personal autonomy.

7. Allows you to develop basic psychological processes

6. It allows you to learn from your own error and the error of others

Decalogue of GAME

(Decalogue of Alsina i Pastells, A., 2004)



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1. It is the most real part of children's lives

2. Playful activities are very motivating

3. It deals with different types of knowledge, skills and attitudes

4. It allows you to face new mathematical content without fear of initial failure.

5. Respect the diversity of the students

