

Dyscalculia

2000336- Billy Williams

What is Dyscalculia?

- Difficulties in mathematics, for example counting or understanding Bigger and smaller numbers (British Dyslexia Association)
- Difficulties are not caused by a lack of education (The Dyslexia Association)
- Prevalence of 25% in the UK (British Dyslexia Association)

(Source: Shutterstock, no date)



Emotional and social impact

- Avoid popular and any math-based games, UNO and Bingo and Video games
- Low self esteem, deflated and can affect other subjects
- Bullied
- Adventure to new places or driving problems

(Morin, A)

Discriminating quantities theory

- Not understanding a bigger or smaller number
- Link Between the word one and number 1
- Poor symbols and quantities understanding
- No understanding of rank order
- Example: “show you three numbers, 1,2,3. Are these in order or not” (Ansari, D Ph.D, 2017)

(Source: Komodo, no date)



(Ansari, D Ph.D, 2017)

Multi Sensory learning

- Physical interaction using all the senses to learn and understand concepts.
- Sand
- Blocks
- Water
- See and feel items that are heavier or bigger and smaller to help them understand
- Visual and physical items help understand mathematical concepts

Multi sensory resource

“Dictate a word using say, touch and spell”

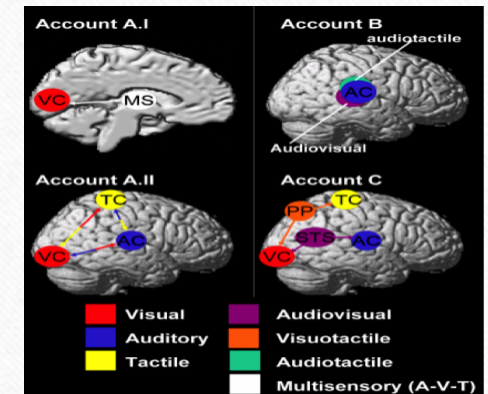
(International Dyslexia Association et al Effective Reading Instruction, 2016)

- Say each word and place a physical object such as tiles or blocks
- Letter must match or represent the sound and symbol
- Assisted resource should help path find the answer and understanding

Benifits

- No Need for the children to visualize items or sizes as they are physically present
- Varied teaching style activates different parts of the brain
- Discover pupils best learning styles
- Used Across all subjects

(Source: Orton Gillingham Online Academy, No date)



(Professional Tuition, No date)

Conclusion

- Multi sensory had many benefits including confidence and wellbeing
- It's possible that Children with dyscalculia can't link or understand symbols with words or size differences
- Using multi sensory lessons explores different parts of the child's brain helping them understand their way of learning
- Without support a child could suffer emotionally from low self esteem

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