Neuroscience Insights: Cognitive Skill Training Programmes for Learners with Disabilities in an Algerian Classroom

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Abstract : In this study, we will try to explore how our brains develop cognitive skills, understand the science behind learning, explore the brain's mechanisms, and inform the main learning practices. Moreover, through this research, we investigate the roles of different brain regions in learning processes which allow brains to adapt and grow. This study not only deepens our understanding of cognitive development but also aims to provide practical insights for educators in order to promote teaching methods. Therefore, our findings will contribute to more effective educational strategies that support all learners. In addition, we selected a diverse group of students, including several with learning disabilities (LD), and the aim was to implement a cognitive skills training program to enhance the learning capabilities of students with LD, specifically focusing on improving working memory, attention, and executive functioning skills. By enhancing cognitive abilities, the suggested programme improved academic outcomes. In this study, we will focus on creating a classroom environment that accommodates different learning styles by providing options for seating (e.g., standing desks, bean bags), which can help maintain focus.