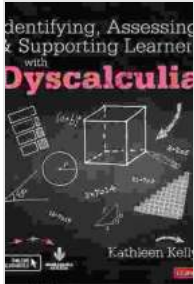


Identifying, Assessing, and Supporting Learners with Dyscalculia: A Comprehensive Guide for Educators



Identifying, Assessing and Supporting Learners with Dyscalculia (Corwin Ltd) by Zachary Hubbard

★★★★☆ 4.4 out of 5

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File size : 7111 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 368 pages

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Dyscalculia is a specific learning disability that affects an individual's ability to understand and manipulate mathematical concepts. It is a common disorder, affecting approximately 5-10% of the population. Dyscalculia can make it difficult for learners to perform basic mathematical operations, such as addition, subtraction, multiplication, and division. They may also struggle with understanding concepts such as place value, fractions, and decimals.

Causes of Dyscalculia

The exact cause of dyscalculia is not known, but it is thought to be caused by a combination of genetic and environmental factors. Research has shown that dyscalculia can be inherited, and it is often associated with other learning disabilities, such as dyslexia. There is also evidence to

suggest that brain injuries or damage to the regions of the brain responsible for mathematical processing can lead to dyscalculia.

Symptoms of Dyscalculia

The symptoms of dyscalculia can vary depending on the severity of the disorder. However, some common symptoms include:

- * Difficulty understanding basic mathematical concepts, such as place value, fractions, and decimals
- * Difficulty performing basic mathematical operations, such as addition, subtraction, multiplication, and division
- * Making frequent errors in mathematical calculations
- * Difficulty understanding mathematical word problems
- * Avoiding mathematical activities
- * Poor spatial reasoning skills
- * Difficulty telling time
- * Difficulty managing money

Identification and Assessment of Dyscalculia

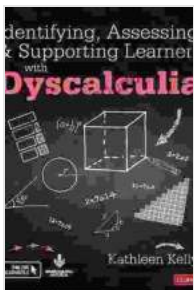
If you suspect that a learner may have dyscalculia, it is important to have them assessed by a qualified professional, such as a psychologist or educational diagnostician. The assessment will typically involve a combination of standardized tests, informal assessments, and observations of the learner's mathematical skills. The assessment process can be time-consuming, but it is important to obtain an accurate diagnosis so that the learner can receive appropriate support.

Supporting Learners with Dyscalculia

There is no cure for dyscalculia, but there are a variety of strategies that can be used to support learners with the disorder. These strategies can help learners to develop their mathematical skills and to overcome the challenges they face. Some common strategies include:

* Using manipulatives, such as blocks, counters, and rods, to help learners understand mathematical concepts * Breaking down complex mathematical problems into smaller, more manageable steps * Providing learners with visual and hands-on activities to help them learn mathematical concepts * Using technology, such as calculators and computer software, to assist learners with mathematical calculations * Providing learners with extra time to complete mathematical tasks * Offering learners additional support in small groups or one-on-one settings * Encouraging learners to develop coping strategies for managing their dyscalculia

Dyscalculia can be a challenging disorder, but it is important to remember that it is a treatable condition. With the right support, learners with dyscalculia can develop the mathematical skills they need to succeed in school and in life. If you suspect that a learner may have dyscalculia, it is important to have them assessed by a qualified professional so that they can receive appropriate support.



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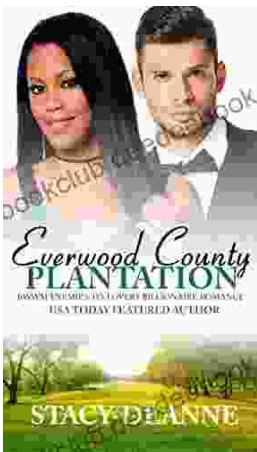
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