

## DYSCALCULIA: CHECKLIST

EARLY YEARS	YES	NO	?
• Difficulty in counting in <b>order</b> – may count randomly:			
1,2,3,7,5,9			
<ul> <li>Difficulty in remembering the names of numbers</li> </ul>			
Doesn't naturally associate numbers with the			
corresponding number of items (give me three)			
Doesn't associate the final count to represent the total			
number or size of the collection			
<ul> <li>Has difficulty counting a collection of different objects</li> </ul>			
• Difficulty in <b>counting on</b> from a number other than 1, goes			
back to 1 each time			
<ul> <li>Difficulty understanding concept of quantity: which is</li> </ul>			
more/less?			
• Difficulty in understanding the concept of 7 being 1 more			
than 6, 8 being 1 more than 7 and so on			
• Difficulty in <b>partitioning</b> : that 7 is made up of 5+2 or 6+1 or			
3+3+1 and so on			
<ul> <li>Relationships of numbers: those that are close on a</li> </ul>			
number line are close in magnitude (e.g. 4 and 6), whilst			
those that are further away have a greater difference in			
magnitude (e.g. 1 and 9)			
			-
RIMARY YEARS	YES	NO	?
Continued errors in counting, particularly the 'teens' and			
across the decade			
'leen' and 'ty' contusion			
Has difficulty ordering numbers on a number line			
Difficulty with prepositions: between, more, less,			
• May write numbers the wrong way round e.g. 23 instead of			
32, or mis-interpret digits e.g. contusing 3 and 5, 2 and 5, 1			
and 7, or reversing digits			
Continued difficulty in understanding the concept of how			
many more/less?			
May continue to use <b>inefficient</b> counting as a method for			
calculating: e.g. 3+4 is (1,2,3, + 1,2,3,4 = 1,2,3,4,5,6,7)			
Returns to 1 each time rather than counts on from a			
number			
Counting backwards, particularly across a decade, is a			
real difficulty			
<ul> <li>Difficulty counting in groups (e.g. of 2 or 3)</li> </ul>			
Has difficulty seeing the pattern or rule e.g. 23,33,43			



• Difficulty in remembering <b>number facts</b> , e.g. multiples,			
factors			
<ul> <li>Difficulty in learning times tables</li> </ul>			
Estimation: often makes a wild guess			
<ul> <li>May confuse symbols such as + and x</li> </ul>			
<ul> <li>Difficulty in learning number bonds, odd and even</li> </ul>			
<ul> <li>Difficulty in <b>deriving</b> information from a known e.g. if</li> </ul>			
6+4=10, 6+5 must be 11			
<ul> <li>Inaccurately remembering number facts</li> </ul>			
<ul> <li>Difficulty in partitioning number, commutativity (3+5=5+3)</li> </ul>			
and that addition is the opposite of subtraction			
<ul> <li>Applying rules too liberally without a thorough</li> </ul>			
understanding: says eighteen, nineteen, twenteen			
• <b>Missing number notation</b> is a difficulty e.g. 2 + ? = 5, ? + 4			
= 6. Will particularly struggle with: $? - 5 = 3$			
<ul> <li>Misconceptions may occur due to over-</li> </ul>			
<b>generalisation</b> e.g. 2+ ? = 5 (? = 3), 2 - ? = 5 (? = 3)			
<ul> <li>Difficulty with understanding and interpreting place value</li> </ul>			
(e.g. one hundred and two is written 1002)			
<ul> <li>Difficulty in following word problems</li> </ul>			
Inappropriate understanding of the notion of equivalence			
• Difficulty in understanding <b>coin values</b> and giving <b>change</b>			
<ul> <li>Difficulty in learning to tell the time</li> </ul>			
<ul> <li>Difficulty in explaining their answer or method</li> </ul>			
SECONDARY YEARS			
At this stage it is clear when a pupil is experiencing difficulties	in rec	asonir	ng
and understanding numerical operations. Mathematics relies	upor	1 the	
ability to use a range of strategies, make connections betwe	en op	peration	ons
and see the pattern or rule. If an individual continues to expe	rienc	е	
substantial difficulty in understanding basic numerical conce	ots, si	ich a'	s
fractions and percentages, preferring to learn a rule, they sho			-
assessed for dyscalculia			
Continued difficulties in calculating, relying upon		1	1
<ul> <li>Commoded difficulties in Calcolating, relying open inefficient method of counting.</li> </ul>			
<ul> <li>Difficulty in estimation decimal place and significant</li> </ul>			
figures			
nguies Difficultion in <b>algebra</b> due to difficultion in generalizations			
Difficulties in algebra due to difficulties in generalisations			
ana unaerstanaing equivalence			
DIFFICUITY IN <b>multi-steppea</b> activities are to memory			
difficulties			
<ul> <li>May find interpreting word problems tricky and not know</li> </ul>			
what operation to assign to the problem			
Continued difficulty in <b>deriving</b> information from the known			
e.g. 25 + 75 = 100, 100-75 = 25, 2.5+7.5 =1.0 and so on.			



<ul> <li>Using the most appropriate strategy for a particular context -relies upon inefficient strategies, such as counting</li> <li>Difficulties in understanding and using money (coin values, giving change)</li> <li>Difficulties in understanding decimal notation due to place value difficulty, standard form</li> <li>Difficulty in application of mathematical concepts such as in measure and capacity</li> <li>Time-related concepts difficult to understand</li> <li>Problems with percentages, fractions and decimals continue to be problematic</li> </ul>			
BEYOND SECONDARY	YES	NO	?
<ul> <li>The impact of ongoing difficulties will impact many walks of life including:</li> <li>Limited ability when managing home finances and shopping</li> <li>Limited ability to estimate time, read timetables etc</li> <li>Restricted employment prospects to work that does not involve too much mathematics, such as required in engineering, plumbing, electrician, medicine, teaching, retail and so on</li> <li>Reduced ability to measure items (weight, capacity, length and distance) restricting employment roles and self-help, such as cooking</li> </ul>			