Dyscalculia

Dyscalcula	Dyscalcula			
Universal	Identification	Teaching and Lea	rning	
	and	Strategies Resources and Physical Environment		
Descriptor	Accessment			
Wave 1	Assessment			
Schools and Settings may	Assessment	Quality First Teaching with a specific consideration for	Additional support is available	
notice in maths:	Hearing checked at	children with dyscalculla/a dyscalculle profile. The	from:	
Work avoidance	GP	children and voung people within the mainstream class.	Learning Support Service	
		Curriculum tasks should be modified as required.	Specialist Teachers - access for	
Low level behaviour (tapping	Sight check		informal advice if required	
pencil)	Evidence actives of	Curriculum and Teaching Methods:		
-	Evidence gathering of	Small steps teaching based on the principles of		
Poor concept of number e.g.		overlearning		
oneness of one, twoness of	acquiring basic	Breaking tasks into chunks	·	
two	despite practical first	Brain breaks including allowing the pupil to move		
Weak number recognition	hand opportunities	Additional time for processing		
(value and symbols)	and overlearning.	Alternative forms of recording routinely used		
		Differentiated questioning and targeted simplified		
Delay in rote counting	Observations by	level/pace		
Poor one to one	SENDCo or trained	Ose of visual, auditory & kinaestnetic approaches Deutine feedback		
correspondence	staff	Routine reedback Reporting politications at eveny experiments		
	Talking to parents	Boloto number concents to overvday life		
Weak understanding of pattern		Relate number concepts to everyday life		
Poor understanding of time.	Pupil discussed at	Organisational Adjustments:		
money and estimation	pupil progress	Maths groups led by the Teacher		
	meetings	Flexible grouping		
Poor understanding of	Concerns raised by	Seating		
sequences	pupil, family, staff	Overlearning using practical materials		
Poor number formation	, , , , , , , , , , , , , , , , , , ,	Ensuring basic concepts are secure before moving on		

Poor organisation of number	Specialist resources and intervention strategies:	
work (lots of crossing out)	 Practical materials which clearly demonstrate the 	
Poor organisation of number work (lots of crossing out) Poor understanding of place value Small amounts of work produced Lack of instantaneous recognition of common number arrays Confusion around operations (symbols +, -, x, ÷) Confusion around application in number problems Poor organisational skills	 Specialist resources and intervention strategies: Practical materials which clearly demonstrate the relative value of number, e.g. Numicon, Dienes. Using ICT to support Identify any specific training needs for staff Transitions: thorough and timely preparations made for transition, both between year groups and between settings 	
Difficulties remembering sequences and large chunks of information		
Lack of retention		
Poor concentration		
Low self-esteem		

Targeted Descriptor Wave 2	Identification and Assessment	Teaching and Learning Strategies, Resources and Physical Environment	
Despite quality first teaching some or all of these descriptors continue to present in maths:Work avoidanceLow level behaviour (tapping pencil)Poor concept of number e.g. oneness of one, twoness of two.Weak number recognition - value and symbolsDelay in rote countingPoor one to one correspondenceWeak understanding of patternPoor understanding of time, money and estimationPoor understanding of sequencesPoor number formation	Basic maths skills check to set a baseline to inform intervention. Continued evidence gathering of persistent difficulties acquiring basic mathematical skills despite practical first hand opportunities and overlearning. Observations by SENDCo or trained staff Talking to parents Pupil discussed at pupil progress meetings Concerns raised Monitoring progress through regular review meetings	 Quality First Teaching with a specific consideration for children with dyscalculia/a dyscalculic profile. The class/subject teacher is accountable for the progress of the children and young people within the mainstream class. Curriculum tasks should be modified as required. Curriculum and Teaching Methods: Small steps teaching based on the principles of overlearning Breaking tasks into chunks Brain breaks including allowing the pupil to physically move Additional time for processing Differentiated questioning and targeted simplified level/pace Use of visual, auditory & kinaesthetic approaches Routine feedback Boosting self-esteem at every opportunity Relate number concepts to everyday life and specific areas of interest Organisational Adjustments: One to one or small group interventions to address targeted skills Maths groups led by the Teacher Overlearning using practical materials 	Additional support is available from: • Learning Support Service Specialist Teachers - access for informal/formal advice recommended

Poor organisation of number work (lots of crossing out) Poor understanding of place value Small amounts of work produced Lack of instantaneous recognition of common number arrays Confusion around operations (symbols +, -, x, ÷) Confusion around application in number problems Difficulties remembering sequences and large chunks of information Lack of retention Poor concentration Low self-esteem	 Specialist resources and intervention strategies: Practical materials which clearly demonstrate the relative value of number Using ICT to support Pastoral clubs to boost self-esteem Task board Identify any specific training needs for staff Transitions: thorough and timely preparations made for transition, both between year groups and between settings 	

Bespoke	Identification	Teaching and Learning	
Descriptor	and	Strategies, Resources and Physical Environment	
Wave 3	Assessment		
Wave 5			
Despite quality first teaching and Wave 2 Intervention, some or all of these	Regular assessment on entry and exit to intervention with	Quality First Teaching with a specific consideration for children with dyscalculia/a dyscalculic profile. The class/subject teacher is accountable for the progress of the children and young people within the mainstream class.	Additional specialist support should be sought from:
descriptors continue to be persistent in maths lessons.	midterm check as appropriate	Curriculum tasks should be modified as required.	from specialist teachers, such as those from Learning Support Service
The pupil may present with a discrepancy with other areas of the curriculum:	Regular monitoring of pupil's numeracy to ensure transfer of	 Curriculum and Teaching Methods: Small steps teaching based on early concepts with these being built upon through overlearning 	
Work avoidance	skills following	 Regular checking by the class teacher to ensure understanding of concepts 	
Poor at subitising	Robust review with	 Breaking tasks into chunks Brain breaks including allowing the pupil to physically 	
Low level behaviour (tapping pencil)	Specialists, Class Teacher, TA and	 Additional time to complete tasks 	
Poor concept of number e.g. oneness of one, twoness of two.	SENDCo	 Use of visual, auditory & kinaesthetic approaches Relate number concepts to everyday life and specific areas of interest. Positive praise around small steps of success. 	
Weak number recognition - value and symbols		 Emphasising pupil's strengths in other areas. Focus on maths skills for life for pupils with the most 	
Difficulty in rote counting		persistent difficulties e.g. time, measurement and money.	
Poor one to one correspondence		 Differentiated questioning and targeted simplified level/pace. 	
Weak understanding of pattern		Organisational Adjustments:One to one or small group interventions to address	
May mask difficulties		targeted skills	
Poor understanding of time, money and estimation		 Initiating groups led by the Teacher Lots of overlearning using practical materials Use of games and IT to add variety to overlearning 	

Poor understanding of sequences

Poor organisation of number work (lots of crossing out)

Poor understanding of place value

Small amounts of work produced

Lack of instantaneous recognition of common number arrays

Confusion around operations (symbols +, -, x, \div)

Confusion around application in number problems

Difficulties remembering sequences and large chunks of information

Lack of retention

Poor concentration

Low self-esteem

Table top visual prompts to show methods of	
calculation	
Maths vocabulary mats	
Multisensory approach	
Over learning	
Tasks broken down	
Concepts given in a stepped format	
Highly skilled staff	
Ensuring mastery of basic skills before moving on	
Specialist resources and intervention strategies:	
Involvement of Specialist to identify difficulties and	
suggest strategies to support	
Practical materials which clearly demonstrate the	
relative value of number.	
Use of ICT to support	
Bespoke programme	
A monitoring system should be in place to assess the pupil's needs, plan and identify outcomes, implement support and monitor and evaluate progress, for example	
an Individual Education Plan, SEN Support Plan or One Page Profile	
Regular, i.e. at least termly, planned reviews including the parent and pupil should take place	
Identify any specific training needs for staff	
Transitions: thorough and timely preparations made for transition, both between year groups and between settings	
For further information: Service Leader: Learning Support Service helen-lss.bacon@rotherham.gov.uk	