Na	me						dob			date	
Do	es tl	he I	earner		?						
1:	nev	er	2: rarely	у 3	s: somet	imes:	4: often	5: al	ways		
	A	Ha	ve diffici	ıltv c	counting	ı ohiec	cts accurat	elv			
		La		oility	to make	e 'one		-	ndence' w	hen cour	nting (match
	3)	Fin		ssib	ole to 'se	,	t four or fi	ve obje	ects are 4	(or 5) wit	thout counting
	4)	Wri	te 51 for	fifte	en or 6	1 for s	ixteen (an	d all te	en numbe	ers)	
	The	ese	are four	ndati	onal, th	e very	start of u	ndersta	anding nur	mbers.	
	В										
	5)	На	ve diffic	ulty r	rememb	ering	basic add	ition ar	nd subtrac	tion facts	s 🗆
	•		unt on fonswer	or ac	ddition fa	acts, fo	or example	e, for 7	' + 3, coun	nting on 8	3,9, 10 to get
	1,2	,3,4	4,5,6,7,8	,9,10)				+ 3 again	•	
	,		ot 'see' i as 3 x 7.		ediately	that 7	+ 5 is the	same	as 5 + 7 o	r that 7 x	3 is the
	9)	Us	se tally n	nark	s (often	not gr	ouped) fo	r additi	ion or subt	traction p	oroblems \square
	usi	ng d	only digit	s an	d numb	ers			, ,		s, tallies) to such as 'four
			nd and t		•	ekad in	n mental a	rithma	tic		
	13)	На	•	skills						calculati	ng change

These are the first steps towards more formal maths. Many educators consider memorising these facts an essential part of setting the foundations for developing maths knowledge and skills. Often getting these facts into long term memory, purely by rote learning, is an insurmountable challenge for some learners and this creates early experiences of anxiety and inadequacy, 'maths is not for me' There are very valuable and viable alternatives to a sole reliance on long term memory. See mathsexplained.co.uk. These alternatives help learners to access the facts and provide early conceptual experiences which set the foundations for future maths learning. Without secure foundations progress will be difficult and insecure.

C		
14) F	Finds it much harder to count backwards compared to forwards and	
	sing any sequence	
•	Find it difficult to count fluently less familiar sequences, such as:	
1,3,5,	7,9,11or 14,24,34,44,54,64	
16) C	Only know the 2x, 5x and 10 multiplication facts.	
17) (Count on to access the 2x and 5x facts	
•	Able to learn the other basic multiplication facts, but then forget them	
overni	•	
,	Make 'big' errors for multiplication facts, such as 6 x 7 = 67 6 x 7 = 13	
20) St	truggle with mental arithmetic.	
-	See' numbers literally and not inter-related, for example, do you count	t from
1 to ge	et 9, rather than subtracting 1 away from 10.	
More t	foundational skills. Being able to reverse a sequence is a key skill in	
	ng maths. In fact, skills with sequences in general is key to developm	nent as
	rlinking facts.	ioni as
Menta	al arithmetic is very dependent on working memory. (This capacity is a	•
	t by asking the student to listen to a sequence of digits and then repeat	at
tnem t	back in reverse order.)	
D		
	Find it difficult to judge whether an answer is right, or nearly right $\;\;\;\Box$	1
-	ind estimating impossible.	-
•	hink an item priced at £4.99 is '£4 and a bit' rather than almost £5	П
•	refer to use formulas (when you remember them!), but use them	
,	anically without any understanding of how they work	
,	orget mathematical procedures, especially as they become more con	
	as decomposing or borrowing for subtraction and almost certainly any	/
	od for division.	
	ot see and pick up patterns or generalisations, especially ones that ar ı, for example that 1/2, 1/3, 1/4, 1/5 is a sequence that is	re new
getting	g smaller.	
28) TI	hink that algebra is impossible to understand	
	ralising is another key skill as is seeing patterns and links in numbers	
	ation is a life skill and also can encourage learners to check their ans	
•	g and at the end of a calculation. It also indicates a good sense of nur umber inter-relationships.	nbei
	•	
E		
_	Organise their written work poorly, for example they do not line up colu	ımns
•	nbers properly.	
	et very anxious about doing ANY maths	
,	,	

31) Refuse to try any maths, especially unfamiliar topics.	
32) Become impulsive when doing maths, rather than being analytical.	Do you
rush to get it over with?	

Items 30 to 32 are about the affective domain and thus onto maths anxiety. I have an anxiety 'test' within my diagnosis book, 'More Trouble with Maths.' Item 29 is important. Complex algorithms require good spatial organisation skills and neat writing. Problems in this area could be an indicator of dyspraxia. Sometimes squared paper can help, but the squares have to be the right size for each individual learner.

Overview

There are no scores or grades for this List. Obviously, the more behaviours that are present, the more severe the learning difficulties will be. An analysis of the behaviours exhibited could create the core of an intervention plan, allowing instructors to target key developmental objectives. The gradings for the items (1-5) may help you to focus on the more 'needy' items.

Steve Chinn (2023) There is a version of the list in my diagnosis book, 'More Trouble with Maths' 3rd edition