Maths Intervention Initial Assessment

Assessment	Instructions	Responses	Comments
Numbers and Counting to 20			
Rote counting	Ask the pupil to count as far as they can.	1-5 ☐ 6-10 ☐ 11-20 ☐	
Recognising numerals	Show number cards 0-5 in a random order. Repeat with 6-10 and 11-20 if secure in the previous number band.	0-5 ☐ 6-10 ☐ 11-20 ☐	
1:1 correspondence	Give the child 4 objects and ask them to count them. Repeat with 9, 14 & 18.	4 ☐ 9 ☐ 14 ☐ 18 ☐	
Sequencing numbers	Ask the pupil to sequence numbers 0-5, if secure continue with 6-10 and 11-20.	0-5 ☐ 6-10 ☐ 11-20 ☐	
Number comparison	Can identify the smallest number to 5, to 10, to 20? Can identify the biggest number to 5, to 10, to 20?	5 & 3 ☐ 9 & 6 ☐ 12 & 18 ☐ 1 & 4 ☐ 7 & 9 ☐ 16 & 19 ☐	
Number formation	Ask the pupil to write the numbers from 0 in order as far as they can.	1-5 ☐ 6-10 ☐ 11-20 ☐	
Place Value	Ask the pupil to use base ten (tens and ones) to make the numbers:	12 ☐ 17 ☐ 20 ☐	
Numerosity			
Subitising/Recognising Dot Patterns	Show the pupil 4 objects (ensure all the same size and colour) for 2 seconds then cover – can they tell you how many (without counting)? Repeat with 2 and then 5 objects. Can they recognise dot patterns on a dice to 6 without counting? Ask them to roll a dice until they have tried to identify each number to 6.	4 ☐ 2 ☐ 5 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐	
Conservation of number	Do they recognise that the total of a group of objects remains that same even when rearranged? Show 5 items, count to reinforce, re-arrange them, and ask how many now? Do they recognise the quantity is unchanged?	Yes ☐ No ☐	
Estimation	Can they give a reasonable estimate for 7, 15, 32 objects in a bag?	7 ☐ 15 ☐ 32 ☐	

Assessment	Instructions	Responses	Comments
Calculations - Addition and Subtraction to 20			
Symbol recognition	Show the symbols + - = and ask them to tell you what they are / mean.	+ ☐ - ☐ = ☐	
Addition with objects	Can the pupil use objects to add, e.g., get one teddy now get 2 more teddies, how many have you altogether? Repeat with the calculations in the response column.	1 + 2 = ☐ 6 + 3 = ☐ 9 + 2 = ☐ 12 + 5 = ☐	
Counting on from a given number	Ask the pupil to count on from the number you say. Do an example first if needed counting starting from 2 instead of 1. Use the numbers in the response column.	From 4? ☐ from 8? ☐ From 13? ☐	*Note whether number track used*
Addition – fluency sheet	Can the pupil complete the written addition calculations accurately and fluently on the addition fluency sheet?	Score out of 30: Time to complete:	
Subtraction with objects	Can the pupil select a given number of objects and take a given number away and say what is left? e.g., get 3 dinosaurs, now take one away, how many are left? Repeat with the calculations in the response column.	3 – 1 = ☐ 7 – 3 = ☐ 10 – 4 = ☐ 14 – 7 = ☐	
Counting back from a given number	Can the pupil count back from a given number orally or using a number track? Do an example first if needed counting starting from 3. Repeat using the numbers in the response column.	From 5? ☐ from 10? ☐ From 17? ☐	*Note whether number track used*
Subtractions – fluency sheet	Can the pupil complete the written subtraction calculations accurately and fluently on the subtraction fluency sheet?	Score out of 25: Time to complete:	

Resources Needed:				
• Number cards • Counting objects • Dice – dot patterns to 6	• Paper / pens • Whiteboard / pen	• Number track / number line • Base 10 – tens and units	• + & - Fluency sheets – 2 copies of each • Timer	3 bags (the same size): one with 7, one with 15 and one with 32 objects (all objects the same size/shape) for the estimation assessment.

Addition Fluency Sheet

Name:		Date:		
Time:		Number correct:		out of 30
1 + 2 =	3 + 1 =	1 + 0 =	2 + 2 =	3 + 2 =
4 + 1 =	3 + 3 =	4 + 2 =	4 + 4 =	0 + 4 =
6 + 4 =	7 + 2 =	5 + 5 =	1 + 8 =	1 + 9 =
8 + 2 =	3 + 7 =	6 + 6 =	10 + 2 =	16 + 3 =
4 + 12 =	1 + 11 =	14 + 3 =	18 + 2 =	11 + 5 =
9 + 9 =	7 + 7=	9 + 5 =	8 + 8 =	10 + 10 =

Stop after 5 minutes if the pupil hasn't completed the sheet.

Subtraction Fluency Sheet

Name:			Date:	
Time:			Number correct:　　　out of 25	
2 - 1 =	3 - 2 =	1 - 1 =	4 - 0 =	5 - 4 =
2 - 2 =	4 - 3 =	4 - 1 =	5 - 1 =	3 - 1 =
10 - 2 =	10 - 3 =	10 - 6 =	10 - 9 =	10 - 1 =
10 - 4 =	10 - 5 =	16 - 4 =	17 - 6=	12- 7=
15 - 8 =	20 - 7 =	20 - 1 =	20 - 15 =	20 - 16 =

Stop after 5 minutes if the pupil hasn't completed the sheet.