Learning Difficulties Australia Learning Difficulties Australia is an association of teachers and other professionals dedicated to assisting students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research. Image: Students with learning difficulties through effective teaching practices based on scientific research.



Government research shows that: "Numeracy problems have a stronger negative impact on job prospects than literacy problems, throughout an adult's life."





Higher Order Thinking Skills Creating
Evaluating Analysing Applying Remembering Understanding Lower Order Thinking Skills Bloom's Adapted Taxonomy 5







Number Patterns



For children with poor number

- sense there are considerable benefits from working with patterned visual number images.
- prevent a 'one after another' view of numbers
- each number pattern has a distinctive identity/feel
- develop a view of numbers as internally patterned constructs, wholes which can be built up , broken down and built up again











The power of games

'Games divert attention away from the tyranny of the right answer, creating a more open field for ideas of all qualities'.

Christopher Toy - Impact Summer 2018

Inhibitory function - Not 'rush in' without considering the whole problem

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I am a number between 71 and 75, I am an even number and a multiple of 3, Move 15 I am an odd number between 15 and 20, a prime number and a factor of 38, Move 20	I am a number between 1 and 10, 1 am an odd number and a factor of 28. Move 5 I am an even number between 25 and 30 and 1 am a multiple of 4. Move 10	4	95	96	97	98	99	100	
		4	85	86	Iam	I am a number between		I am an even number, I	
		4	75	76	63 a nu	nd 68, I a imber and	m an odd I prime	lie between 70 and 75 and 1 am the product of 8 and 9, Move 15 1 am an odd number between 21 and 30 and a factor of 100. Move 10	
		4	65	66	Г —	Move 2	0		
		4	55	56	l an betw	n an even een 5 and	number 115 and a		
I am an odd number between 25 and 30 and I am a cube number. Move 10	I am a number between 82 and 87, I am an even number and the product of 7 and 12.	4	45	46	Γ	factor of	36.		
		4	35	36	Lam	20 0100	umber I	I am a number between	
I am a number between 50 and 60, I am an even number and a multiple of 8. Nove 15	I am an odd number between 55 and 65 and I am the product of 7 and 9. Move 20	4	25	26	liet	lie between 60 and 70 and I am a cube number and prime			
		4	15	16		Nove 1	N r.	Nove 5	
			5	6	7	8	9	10	

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- Understand the difference in the roles of the numerator and the denominator
- Understand why $\frac{1}{3}$ is larger than $\frac{1}{5}$
- Be able to calculate a fraction
- Understand how to add fractions with different denominators

Sarah Wedderburn Unico

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