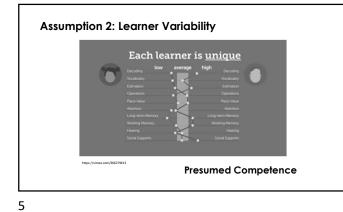


Assumption 1: Least Dangerous Assumption

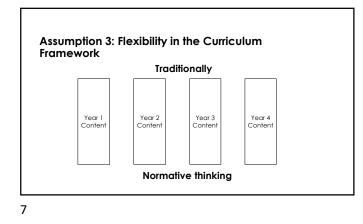
 "the least dangerous assumption is to presume [every] student is competent to learn general education curriculum and to design educational programs and supports based on that assumption" [Jorgenen, 2006 cited in Jorgenson et al., 2007, p.]



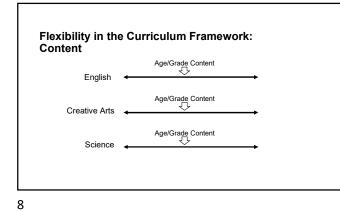


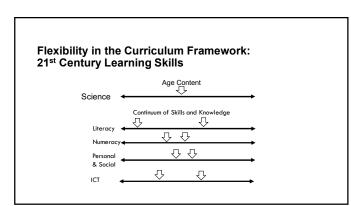








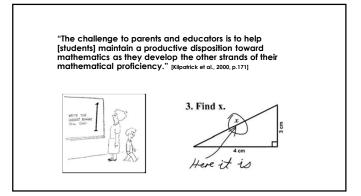






Enabling All Students Through Numeracy

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Numeracy

• Students become numerate as they develop the knowledge and skills to use mathematics confidently across all learning areas at school and in their lives more broadly. Numeracy involves students in recognising and understanding the role of mathematics in the world and having the dispositions and capacities to use mathematical knowledge and skills purposefully. [Australian Curriculum, 2014]

ltem #1

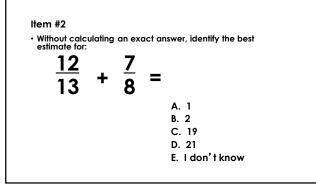
Without calculating an exact answer, identify the best estimate for:



A. More than 36

- B. Less than 36
- C. Equal to 36
- D. Impossible to tell without working it out

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Number Sense

• ... flexibility in thinking about numbers and operations as a <u>well-organised</u> network of numerical knowledge that allows numbers to be used and <u>represented in multiple</u> ways, including relating them to each other, <u>composing</u> and decomposing them, or <u>embedding them in various</u> <u>contexts</u> of mathematical operations and problem solving. [Reuss, 2000]

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	-	INTERSIST SKILLS	owledge
Numeracy and Number Sense			Ţ.
		Content	
Mathematics	↓ Ţ	$\overline{\mathbf{v}}$	
English	•	<u> </u>	
Science		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Creative Arts		Ŷ	Γ,

(Some) Potential Barriers to Number Sense

- Relevance and value of mathematics
- Symbols and vocabulary
- Fluency with key ideas and concepts

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Addressing Barriers

- Relevance and value of mathematics
 Know your students
- Symbols and vocabulary
 Provide specific instruction
- Fluency with key ideas and concepts
 Provide scaffolded and sustained practice

Conclusion

- Numeracy is key to quality of life for all
- It is part of every curriculum domain
- An awareness of the demands of numeracy in curriculum areas (potential barrier) can be leveraged to enhance numeracy outcomes

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