

ELEMENT

Domain 4 - Personalise and Connect Mathematics Learning



Element 4.4 - Communicate learning in multiple modes



The following suggestions for practice are extracts from the 'Transforming Tasks' module on the Leading Learning resource:

Strategy

From Information to Understanding

Technique

Many ways of knowing: Ask students to construct general rules by identifying patterns.

Level	Before	After
Primary	1. 3+5 2. 4+7 3. 2+4 4. 9+5 5. 11+5 6. 4+9 etc	 Three girls and five boys were at a party. How many children were at the party? 4 + 7 Mord Try to make the values easy to recognise quickly Materials Represent each problem on the think board, in a picture, using materials, in a number sum and in a word problem, and write the answer in the middle. You may do the tasks in any order. Reference This think board is from the 'Maths for Learning Inclusion' resource, but similar versions can be produced for any topic.
Secondary	Calculate: a. 2/5 + 3/7 b. 7/9 - 2/5 c. 3/4 x 1/3 d. 5/9 ÷ 1/3	 2/5 + 3/7 7/9 - 2/5 3/4 x 1/3 5/9 ÷ 1/3 For each of the fraction questions above: Use any appropriate numerical process to calculate solutions to the questions. Create a diagram or a physical representation that would support you to calculate the solution or convince someone (or yourself) that your solution is correct. Write a word problem/ describe a situation in which this calculation could be relevant.

How do you think the technique Many ways of knowing might support *Element 4.4 - Communicate learning in multiple modes?*

There are many ways to articulate this relationship. One response to this question has been provided on the next page.



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4.4

Element 4.4 - Communicate learning in multiple modes



The following suggestions for practice are extracts from the 'Transforming Tasks' module on the Leading Learning resource:

How does the technique Many ways of knowing support Element 4.4 - Communicate learning in multiple modes?

Teachers can determine the different modes that are used to demonstrate 'many ways of knowing' or they could negotiate one or more modes with the students. As, '...students often understand before they can verbalise their understanding,' (Adding It Up), offering multiple modes/multiple ways of knowing provides a range of levels at which students can enter the learning activity. For example, students may be able to demonstrate the addition of two fractions practically before they can articulate the importance of converting to equivalent fractions. This supports authentic assessment.