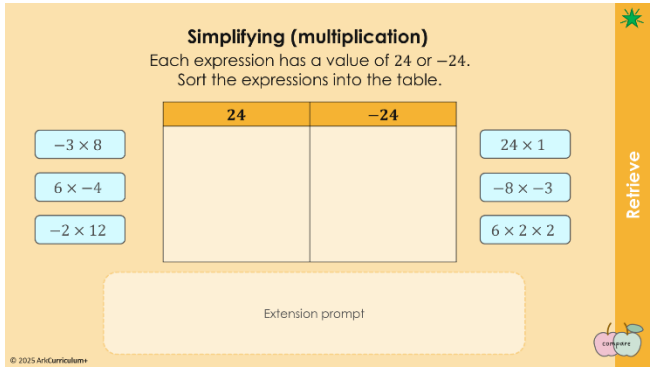
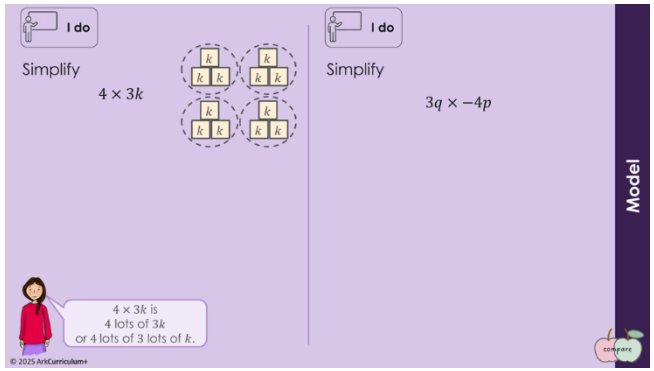
Teaching notes Y7U6L2

Note: These are examples of the teacher guidance found under each slide in the lesson slide deck.



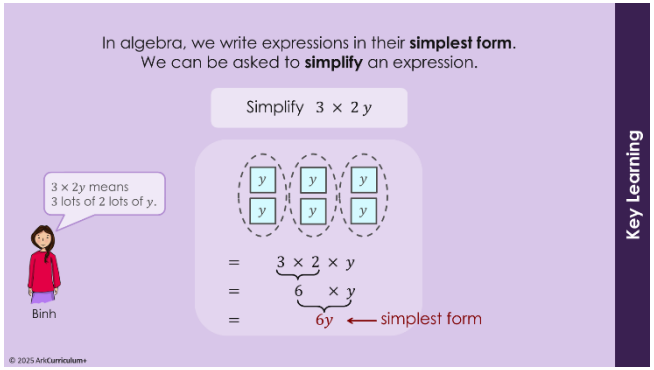
Purpose: To activate prior learning on multiplying positive and negative numbers to support students' ability to simplify algebraic multiplication expressions in this lesson.



Purpose: To introduce students to writing expressions involving multiplication in their simplest form. The representation will support students to make sense of the expression and the simplified version.

Key information for students:

- It is conventional to write algebra in its simplest form
- Between the coefficient and variable, there is a multiplication sign. Remembering this will support expanding the expression and fully comprehending what is required (e.g. $3 \times 2 \times y$)
- The representation shows 3 groups of $2y$. This is the same as 3 lots of 2 lots of y
- It is conventional to write the number (coefficient) before the letter (variable) (e.g. $6y$)



Model and compare both examples
In these examples we model simplifying we model simplifying algebraic expressions using multiplication. Both examples require multiplying numerical values, but the RHS also includes a negative coefficient and requires commutativity to rearrange the expression.

LHS answer: $12k$
RHS answer: $-12pq$

Additional MWB questions:
LHS:

- Simplify $5 \times 2p$ (Answer: $10p$)

RHS:

- Simplify $5d \times -3e$ (Answer: $-15de$)

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