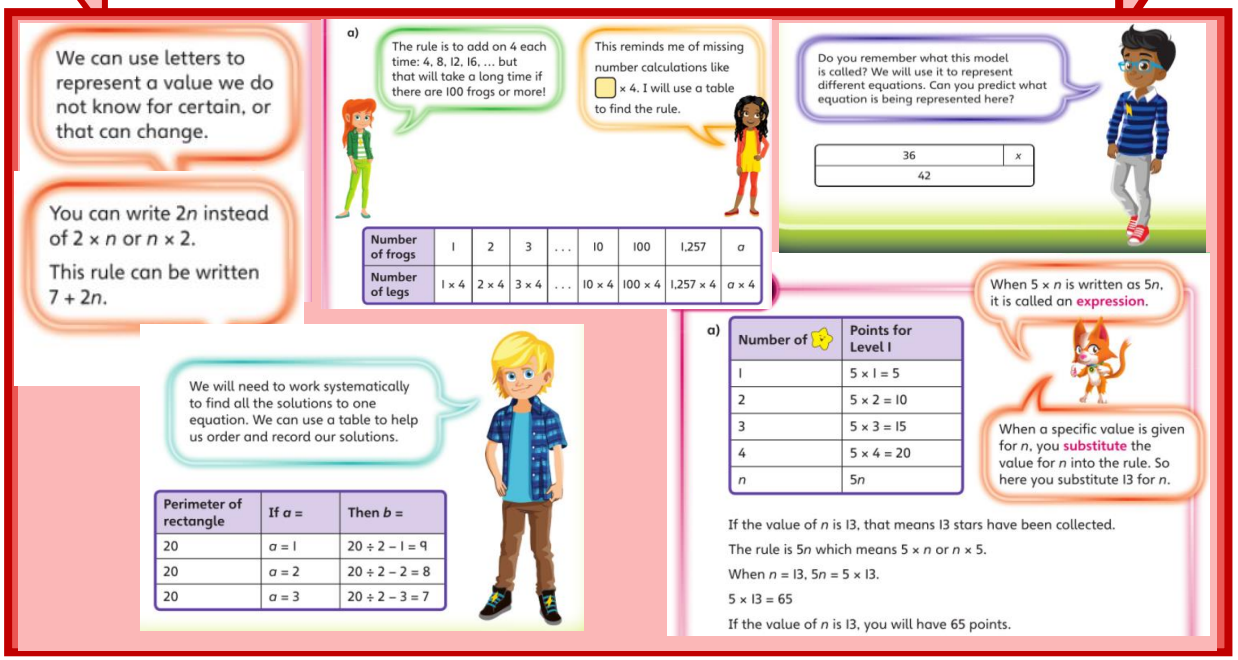
Year 6 Algebra Knowledge Organiser

Star Vocabulary

Rule	A set way to solve a calculation.
Expression	A mathematical phrase containing numbers and letters.
Formula	A rule written with numbers and letters.
Inverse	The opposite of another operation. *Multiplication/Division Addition/Subtraction.*
Equation	A number sentence that has two equal sides separated with an equals sign.

I can use a bar model or part whole model to help to solve missing number questions.

I can use algebra to solve word problems.



Sentence Stems

It can't be… because…
I noticed that…
It must be … because…
If…then…
This is different because…
This is the same because…
This is true here because…
I already know that… so…

Misconceptions

Children may think an expression such as 2y means 2 + y.

When solving equations such as 36 – x = 23, children may solve the incorrect inverse calculation, calculating 23 + 36 instead of 36 – 23.

Factual & Conceptual Fluency progression

- Addition and subtraction within 10.
- Secure and maintain fluency in addition and subtraction within and across 10, through continued practice.
- Recall the 2, 4 and 8 multiplication tables, and corresponding division facts.
- Recall the 7-multiplication table, and corresponding division facts.
- Addition and subtraction across 10.
- Recall the 10 and 5 multiplication tables, and corresponding division facts.
- Recall the 3, 6 and 9 multiplication tables, and corresponding division facts.
- Recall the 11 and 12 multiplication tables, and corresponding division facts.
- Secure and maintain fluency in all multiplication tables, and corresponding division facts, through continued practice.