## **Year 7 Mathematics Learning Journey: Unit 2 - Algebraic Notation**

Step 12: Represent functions graphically

Will the equation y = 5 - x produce a straight line graph

or not?



Step 11: Generate sequences from a rule

Calculate the first 10 terms of the sequence with the rule  $n^2$ - 4

Step 9: Find functions from expressions

Fill in the gaps in the function machines.

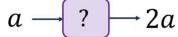


## Step 5: Find functions from expressions

Fred says the machine is "x2"

Bertha says it is "+a"

Who do you agree with?

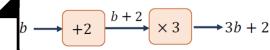


Step 6: Substitute into single expressions

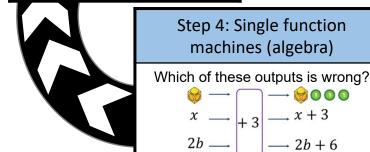
Substitute a = 5 into the expression  $a^2$ 

Step 8: Two-step function machines (algebra)

Correct the mistake made below.







Step 3: Use letter to generalise number operations

Zeb says p<sup>2</sup>, 2p and p2 are all exactly the same. Explain why Zeb is **wrong.** Use diagrams to help.

Step 2: Find the input given the output

If the output is 100, what is the input?

