F.IF.B.4 & 6 Leveled Tasks: Average Rate of Change and Graphing a Quadratic Function Using a Table

<table>
<tr><td colspan="2">F.IF.B.4 Average Rate of Change</td></tr>
<tr><td>Average Rate of Change (Grade Level)</td><td>Given the function f(x) = 2x^2 + 3x, calculate the average rate of change from x = 1 to x = 4.</td></tr>
<tr><td>Average Rate of Change (7th Grade)</td><td>The table shows the values of a function: x: 0, 2, 4; f(x): 1, 5, 13. Find the average rate of change from x = 0 to x = 4.

<table><tr><td>x</td><td>f(x)</td></tr><tr><td>0</td><td>1</td></tr><tr><td>2</td><td>5</td></tr><tr><td>4</td><td>13</td></tr></table></td></tr>
<tr><td>Average Rate of Change (5th Grade)</td><td>A car travels 60 miles in 2 hours. What is the average rate of change in miles per hour?</td></tr>
<tr><td>Average Rate of Change (3rd Grade)</td><td>A plant grows from 10 cm to 18 cm in 4 days. What is the average growth per day?</td></tr>
</table>

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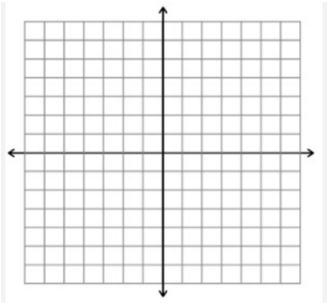
F.IF.B.6 Graphing a Quadratic Function Using a Table

Graphing a Quadratic Function Using a Table (Grade Level)

Given the function f(x) = x^2 - 4x + 1, complete the table for x = 0, 1, 2, 3, 4, 5, then plot the points and graph the function.

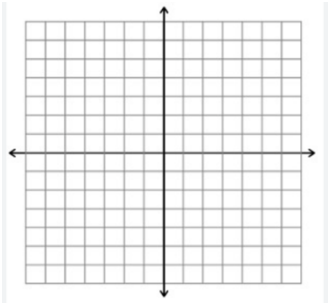
x	f(x) = x^2 - 4x + 1
0	
1	
2	
3	
4	
5	



Graphing a Quadratic Function Using a Table (7th Grade)

Given the function f(x) = x^2, fill in the table for x = -2, -1, 0, 1, 2, and plot the points on a graph.

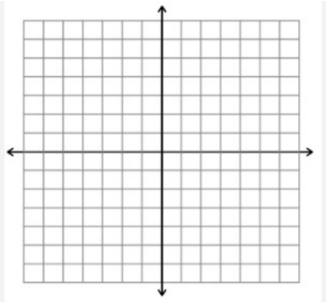
x	f(x)
-2	
-1	
0	
1	
2	



Graphing a Quadratic Function Using a Table (5th Grade)

Given the function f(x) = x^2 for x = 0, 1, 2, complete the table and draw the points on a graph.

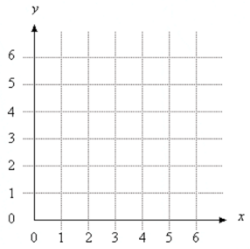
x	f(x) = x^2
0	
1	
2	



Graphing a Quadratic Function Using a Table (3rd Grade)

Here is a table for y = x^2 with x = 0, 1, 2. Fill in the missing y-values and draw the points on a simple grid.

x	y = x^2
0	
1	
2	



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