## Activity 3 Assessment

 Comparing Linear Patterns| Comparing Linear Patterns |  |  |  |
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| Represents linear patterns in different forms <br> "I can represent this linear pattern with a table of values, graph, or pattern rule. The pattern rule for this pattern is $2 n+1$." | Uses constant rate and initial value to match graphs and pattern rules <br> Which graph represents $2 x$ and which represents $2 x+4$ ? <br> "I know the graph of $2 x$ will begin at $(0,0)$ and the graph of $2 x+4$ will begin at ( 0,4 ). For both, every time you move right 1 you move up 2. The blue line represents $2 x$ and the green line represents $2 x+4$." | Compares linear patterns by graphing them <br> Pattern B: $2 x+2$ <br> "I graphed both patterns. <br> They have different initial values but the same constant rate, 2. Pattern A is a series of points, the points in Pattern B can be joined with a line." | Predicts how changes to an expression will affect its graph <br> This graph shows the pattern $2 x+2$. How will the graph of $2 x+4$ compare to this? How will the graph of $5 x+2$ compare? <br> "The graph of $2 x+4$ will look just like this but shifted up 2 units. The graph of $5 x+2$ will start at the same point but be much steeper." |

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