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| **Comparing Linear Patterns** | | | |
| Represents linear patterns in different forms    “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  Which graph represents 2*x* and which represents 2*x*+ 4?    “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  Pattern A    Pattern B: 2*x* + 2    “I graphed both patterns. 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  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?    “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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| **Observations/Documentation** | | | |
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