## Activity 1 Assessment

 Exploring Patterns| Exploring Patterns |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Identifies increasing (growing) and decreasing (shrinking) patterns <br> Is this an increasing or decreasing pattern? What does this tell you about the graph of the pattern? |  | Identifies linear and non-linear patterns |  | Determines rate of change and initial value of a linear pattern <br> What is the constant rate for the pattern $y=-2 x+5$ ? What is its initial value? |  | Predicts the effect of changing the coefficient of the variable or the constant in a pattern rule <br> How is the graph of $y=x+5$ the same as the graph of $y=-2 x+5$ ? How is it different? <br> "Both graphs are straight lines that pass through $(0,5)$. The graph of $y=x+5$ slopes up to the right and is less steep than the graph of $y=-2 x+5$, which slopes down to the right." |
|  |  | Term number 0 | Term <br> value |  |  |  |
| Term number | Term value | 1 | 8 | "I'm not | in, so l'm going to |  |
| 0 | 11 | 2 |  |  |  |  |
| 1 | 8 | 3 | 2 | $x$ | $-2 x+5$ |  |
| 2 | 5 |  | e term numb | 0 | 5 |  |
| 3 | 2 | increases | 1 , the term value | 1 | $3$ |  |
|  |  | decreases | 3. So, the pattern has | 2 | 1 |  |
| the term valu | $\qquad$ | a constant linear. I kn | e. This means it is the graph will be a | 3 | $-1$ |  |
| So, I know pattern. As graph, the | s is a decreasing u move right on a ints fall to the right." | series of pow straight lin | s that lie along a | From m -2 and they ma variable | e, the constant rate is itial value is 5 . I see e coefficient of the he constant term." |  |
| Observa | ns/Documentation |  |  |  |  |  |
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