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Patterning and Algebra
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## Activity 2 Assessment <br> Investigating Increasing and Decreasing Patterns

| Generalizing and Representing Patterns |  |  |  |
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| Recognizes that a pattern can repeat, increase, or decrease. <br> "This is an increasing pattern. I know this because each time there are more blocks." | Identifies how a pattern changes and describes the pattern rule. <br> "The pattern rule is: Start with 1 hexagon and 6 triangles. Add one hexagon and 6 triangles each time.' | Represents patterns using a table or chart. <br> "The table shows the number of blocks increases by 7 each time, and the graph shows the height of the bars increases by the same amount." | Represents patterns symbolically and writes the pattern rule. $7,14,21$ <br> "The number of blocks in each term increases by 7 because each flower has 7 blocks. Term 3: 7+7+7=21." |
| Observations/Documentation |  |  |  |
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## Patterning and Algebra

## Activity 2 Assessment <br> Investigating Increasing and Decreasing Patterns

| Generalizing and Representing Patterns (cont'd) |  |  |  |
| :---: | :---: | :---: | :---: |
| Extends patterns using repeated addition, repeated subtraction, or multiplication. <br> "I extended the patterns in the number of hexagons and triangles using a multiplication chart." | Creates patterns and explains the pattern rule. $23,31,39,47,55,63,71,79,87,95$ <br> "I created an increasing pattern that starts at 23 and increases by 8 each time." | Uses patterns to solve problems. <br> Yasmin and her family are planning a celebration and need to arrange 70 chairs. <br> "I added the number of chairs in the first 6 terms (54). <br> Term 7 is 16 and $54+16=70$. Yasmin will need 7 tables." | Fluently identifies, creates, and extends patterns to solve real-life problems. <br> Sami takes 40 minutes to make one bracelet. How many bracelets can Sami make in 6 hours? <br> "There are 360 minutes in 6 hours. I know that the pattern increases by 40 mins each term. $9 \times 40=360$. Sami can make 9 bracelets in 6 hours." |
| Observations/Documentation |  |  |  |
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