| **SOL Objective** | **Essential Knowledge and Skills** |
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| K.13 – The student will identify, describe, extend, create, and transfer repeating patterns. | • Identify and describe the core (the part of the sequence that repeats) found in repeating patterns of common objects, sounds, movements, and pictures.  • Extend a repeating pattern by adding at least two complete repetitions of the core to the pattern.  • Create a repeating pattern.  • Compare similarities and differences between patterns.  • Transfer a repeating pattern from one representation to another. |
| 1.14 – The student will identify, describe, extend, create, and transfer growing and repeating patterns. | • Identify the pattern in a given rhythmic, color, geometric figure, or numerical sequence.  • Describe the pattern in a given rhythmic, color, geometric figure, or numerical sequence in terms of the core (the part of the sequence that repeats).  • Extend a repeating or growing pattern, using manipulatives, geometric figures, numbers, or calculators.  • Create a repeating or growing pattern, using manipulatives, geometric figures, numbers, or calculators (e.g., the growing patterns 2, 3, 2, 4, 2, 5, 2, 6, 2, …).  • Transfer a pattern from one form to another. |
| 2.16 The student will identify, describe, create, extend, and transfer patterns found in objects, pictures, and numbers. | • Identify a pattern as growing or repeating.  • Describe the core (the part of the sequence that repeats) of a given repeating pattern.  • Describe how a given growing pattern is changing.  • Create a growing or repeating pattern, using objects, pictures, or numbers.  • Extend a given pattern, using objects, pictures, or numbers.  • Transfer a given growing or repeating pattern from one form to another using objects, pictures, or numbers. |

Resource: VDOE Mathematics Curriculum Frameworks, September 2016.