***Patterning***

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| **Assessment Category** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| **Knowledge and Understanding****The student…** |  |  |  |  |
| – describes and creates numeric patterns | LimitedKnowledge | SomeKnowledge | ConsiderableKnowledge | ThoroughKnowledge |
| – compares patterns |
| - use concrete materials to represent patterns between adding & subtracting |
| **Thinking****The student…** |  |  |  |  |
| – demonstrates mathematical thinking (e.g., orally, written and visual representations) | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | High Degree of Effectiveness |
| – deconstructs problems to determine necessary information |
| – uses problem solving skills and selects appropriate strategies (repeated pattern, growing pattern, shrinking pattern) |
| **Communication****The student…** |  |  |  |  |
| - explains number patterns involving addition & subtraction | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | High Degree of Effectiveness |
| - communicates and identifies patterns on a number line |
| - uses appropriate vocabulary and terminology (repeated pattern, growing pattern, shrinking pattern) |
| **Application****The student…** |  |  |  |  |
| - applies pattern skills in familiar contexts  | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | High DegreeOf Effectiveness |
| - transfers knowledge through investigation & number patterns |
| - makes connections among patterns   |