

Grade 6 – Patterns and Relationships

Assessment Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding				
The student...				
- identifies geometric patterns/pattern rules and represents them numerically	Limited Knowledge	Some Knowledge	Considerable Knowledge	Thorough Knowledge
-creates tables of values for growing patterns given a pattern rule				
-distinguishes between term and term number				
Thinking				
The student...				
-identifies/represents a pattern rule using a variety of means (e.g. words, table of values or a graph)	Limited Effectiveness	Some Effectiveness	Considerable Effectiveness	High Degree of Effectiveness
-determines a term, given its term number by extending a growing/shrinking pattern				
- uses problem solving skills				
Communication				
The student...				
- explains mathematical thinking when determining/identifying number patterns	Limited Effectiveness	Some Effectiveness	Considerable Effectiveness	High Degree of Effectiveness
- communicates using a variety of modes (short answers, lengthy explanations, verbal reports, diagrams, numerically)				
- uses appropriate vocabulary and terminology (e.g. term, term #, starts with, growing, shrinking, repeating)				
Application				
The student...				
- applies knowledge and skills about growing/shrinking patterns to in-class assignments	Limited Effectiveness	Some Effectiveness	Considerable Effectiveness	High Degree Of Effectiveness
- transfers knowledge and skills about patterning to in-class assignments (e.g. creating word problems)				
- extends and creates repeating patterns that result from rotations using a variety of tools				