**Grade 6 – Algebra Achievement Chart**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment Category** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| **Knowledge and Understanding****The student…** |  |  |  |  |
| -identifies different ways in which variables are used | LimitedKnowledge | SomeKnowledge | ConsiderableKnowledge | ThoroughKnowledge |
| -demonstrates an understanding of equations and what variables can represent |
| -demonstrates an understanding that equations may contain 2 or more variables |
| **Thinking****The student…** |  |  |  |  |
| -uses knowledge about variables to solve problems with two or more variables | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | High Degree of Effectiveness |
| -distinguishes between quantities in equations that remain constant and those that can change |
| – uses problem solving skills |
| **Communication****The student…** |  |  |  |  |
| - explains mathematical thinking when solving problems that use 2 or more variables to represent different unknown quantities | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | 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. variables, constants) |
| **Application****The student…** |  |  |  |  |
| - applies knowledge and skills about variables, equations and expressions to in-class assignments  | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | High DegreeOf Effectiveness |
| - transfers knowledge and skills about algebra to in-class assignments (e.g. creating word problems) |
| -makes connections between concepts in algebraic expressions and other strands in math |