**Grade 6 – Algebra Achievement Chart**

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| **Assessment Category** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| **Knowledge and Understanding**  **The student…** |  |  |  |  |
| -identifies different ways in which variables are used | Limited  Knowledge | Some  Knowledge | Considerable  Knowledge | Thorough  Knowledge |
| -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 | Limited  Effectiveness | Some  Effectiveness | Considerable  Effectiveness | 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 | 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. variables, constants) |
| **Application**  **The student…** |  |  |  |  |
| - applies knowledge and skills about variables, equations and expressions to in-class assignments | Limited  Effectiveness | Some  Effectiveness | Considerable  Effectiveness | High Degree  Of 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 |