**Grade 6 - Geometric Properties**

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| **Assessment Category** | **Level 1** | **Level 2** | **Level 3** | **Level 4** |
| **Knowledge and Understanding**  **The student…** |  |  |  |  |
| - demonstrates an understanding of geometric properties related to symmetry, angles and sides | Limited  Knowledge | Some  Knowledge | Considerable  Knowledge | Thorough  Knowledge |
| – measures, constructs and classifies angles up to 180using a protractor |
| -constructs polygons, using a variety of tools, given angle and side measurements |
| **Thinking**  **The student…** |  |  |  |  |
| - sorts and classifies polygons (inc. quadrilaterals) by geometric properties | Limited  Effectiveness | Some  Effectiveness | Considerable  Effectiveness | High Degree of Effectiveness |
| – builds 3D models given a variety of views (e.g. top, side, front) or isometric sketches |
| – sketches isometric perspectives and different views of 3D figures |
| **Communication**  **The student…** |  |  |  |  |
| - explains mathematical thinking when sorting polygons by geometric properties | 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 symmetry, attributes, right/obtuse/acute angles) |
| **Application**  **The student…** |  |  |  |  |
| - applies their understanding of geometric properties to solving real life problems | Limited  Effectiveness | Some  Effectiveness | Considerable  Effectiveness | High Degree  Of Effectiveness |
| - transfers knowledge and skills to new contexts and different problems |
| - makes connections between concepts about geometric properties |