**Grade 6 - Geometric Properties**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 | LimitedKnowledge | SomeKnowledge | ConsiderableKnowledge | ThoroughKnowledge |
| – measures, constructs and classifies angles up to 180$∘$using 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 | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | 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 | 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 symmetry, attributes, right/obtuse/acute angles) |
| **Application****The student…** |  |  |  |  |
| - applies their understanding of geometric properties to solving real life problems  | LimitedEffectiveness | SomeEffectiveness | ConsiderableEffectiveness | High DegreeOf Effectiveness |
| - transfers knowledge and skills to new contexts and different problems |
| - makes connections between concepts about geometric properties |