Math Year 5 Grade 10 Geometry


|  |  |  |  |  |  |  | 1. Identifying line symmetry <br> 2. Making predictions <br> 2-B: Translations <br> 1. Rigid motions <br> 2. Vectors <br> 2-C: Rotations <br> 1. Angle of rotational symmetry <br> 2. Rigid Motion <br> 2-D: Compositions of Transformations <br> 1. Identify and draw compositions of transformations |
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| Parallel <br> and <br> perpendic <br> ular Lines | Logic | Measurement Space | Orientation in time and space <br> Exploration: Scale | Applying measurement to create scale images requires a logical division of space. | $\begin{aligned} & \hline \text { A i. ii. } \\ & \text { D. ii. lii. } \\ & \text { C I. ii. lii. Iv. V. } \end{aligned}$ | Communication <br> * read critically and for comprehension <br> Affective skills <br> * demonstrate persistence and perseverance <br> Thinking, Creative thinking <br> * consider multiple alternatives, including those that might be unlikely or impossible <br> * practice flexible thinking develop multiple opposing, contradictory and complementary arguments | A: Lines and Angles <br> B: Proving Lines Parallel <br> I. Use of tools <br> II. Converse Theorems <br> C: Perpendicular Lines |
| Triangles | Logic | Measurement Equivalence | Scientific and Technical Innovation <br> Exploration: mathematical puzzles | Using logic to measure mathematical puzzles through scientific and technical innovation and equivalence. | A i, ii, iii B I. ii. iii D I. ii, iii, iv, v | Thinking, critical-thinking skills <br> *drawing reasonable conclusions and generalizations *interpret data | 5A Classifying triangles <br> Angle Relationships in Triangles <br> 5B Congruent triangles <br> Triangles Congruence SSS, SAS, ASA, AAS and HL <br> 5c Triangle Congruence CPCTC <br> 5d Introduction to coordinate proofs <br> 5e Isosceles and Equilateral Triangles <br> 6A Perpendicular and Angle Bisectors |


|  |  |  |  |  |  |  | 6D Triangle Midsegment Theorem 6E Inequalities in One Triangle 6G The Pythagorean Theorem 6H Applying Special Right Triangles |
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| Polygons | Form | Representation Measurement | Global Context: <br> Identities and relationships <br> Exploration: <br> Identity formation | Applying knowledge of form to identify common measurements and representations of polygons to differentiate shapes. | A. i, ii, iii $\begin{aligned} & \text { C. I, ii } \\ & \text { D I. ii, iii, iv, v } \end{aligned}$ | Communication <br> *Communicate with peers using a variety of digital environments and media <br> Critical-thinking skills: <br> *Draw reasonable conclusions and generalizations | A: Properties and Attributes of Polygons <br> B: Properties and Conditions of Parallelograms <br> C: Properties of Kites and Trapezoids |

