Mathematics 4 to 9 IRP: Prescribed Learning Outcomes

|  | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number |  |  |  |  |  |  |
| Patterns and Relations Pattens |  |  | B1 demonstrate an understanding of the relationships within tables of values to solve problems $[\mathrm{C}, \mathrm{CN}, \mathrm{PS}, \mathrm{R}]$ B2 represent and describe patterns and relationships using graphs and tables <br>  |  |  |  |
| Variables and Equations | B5 express a given problem as an equation in which a symbol is used to represent an unknown number $[C N, P S, R]$ <br> B6 solve one-step equations in number $[C, C N, P S, R, V]$ |  |  |  |  |  |

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| Shape and Space Measurement |  |  |  |  |  | C1 solve problems and justify the solution strategy using circle properties, including - the perpendicular from the centre of a circle to a chord bisects the chord - the measure of the central angle is equal to twice the measure of the inscribed angle subtended by the same arc - the inscribed angles subtended by the same arc are congruent - a tangent to a circle is perpendicular to the radius at the point of tangency [C, CN, PS, R, $\mathrm{T}, \mathrm{V}]$ |
| 3-D Dijects and <br> 2-D Shapes <br> 2-D Shapes |  |  |  |  |  | C2 $\left.\begin{array}{l}\text { determine the surface area of composite 3-D objects to solve } \\ \text { problems }[C, C N, P S, R, V] \\ \text { C3 } \\ \text { demonstrate an understanding of similarity of polygons } \\ \\ \\ \\ \end{array}, C, C N, P S, R, V\right]$ |
| Transormation |  |  |  |  |  | C4 draw and interpret scale diagrams of 2-D shapes $[C N, R, T, V]$ C5 $\begin{aligned} & \text { demonstrate an understanding of line and rotation symmetry } \\ & {[C, C N, P S, V]}\end{aligned}$ |
| Statistics and Probability Data Analysis |  | D1 differentiate between first-hand and second-hand data [C, R, T, V] D2 construct and interpret double bar graphs to draw conclusions $\quad[\mathrm{C}, \mathrm{PS}, \mathrm{R}, \mathrm{T}, \mathrm{V}]$ |  |  |  |  |
| Chance and Uncertainty |  | D3 describe the likelihood of a single outcome occurring using word |  |  | emencicares |  |

