**MATH K-10 CONTINUUM OF CURRICULAR COMPETENCIES (DO)**

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| **COMPETENCIES** |  |
| **CORE**  | **CURRICULAR** | **K-5** | **6-9** | **10 (Pre-Calc)** |
| **THINKING** | **Reasoning and Analyzing** |  | I can use logic and patterns to solve puzzles and play games |  |
| I can use reasoning to explore and make connections | I can use reasoning and logic to explore, analyze, and apply mathematical ideas |
| I can estimate reasonably |
| I can develop mental math strategies and abilities to make sense of quantities | I can demonstrate and apply mental math strategies | I can demonstrate fluent and flexible thinking of number |
| I can use technology to explore mathematics | I can use tools or technology to explore and create patterns and relationships, and test conjectures | I can use tools or technology to analyze relationships and test conjecture |
| I can model mathematics in contextualized experiences |
| **Understanding and Solving** | I can develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving | I can develop, demonstrate, and apply conceptual understanding of mathematical ideas |
| I can visualize to explore mathematical concepts | I can visualize to explore and illustrate mathematical concepts |
| I can develop and use multiple strategies to engage in problem solving  | I can apply multiple strategies to solve problems in both abstract and contextualized situations | I can apply flexible strategies to solve problems in both abstract and contextualized situations |
| I can engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures |
| **COMMUNICATING** | **Communicating and representing** | I can communicate mathematical thinking in many ways  |
| I can use mathematical vocabulary and language to contribute to mathematical discussions |
| I can explain and justify mathematical ideas and decisions | I can explain and justify mathematical ideas in a variety of ways |
| I can represent mathematical ideas in concrete, pictorial, and symbolic forms | I can represent mathematical ideas in a variety of ways |
| PERSONAL AND SOCIAL | **Connecting and Reflecting** | I can reflect on mathematical thinking |
| I can connect mathematical concepts to each other and to other areas and personal interests |
| I can incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts |
|  | I can use mathematical arguments to support personal choices |