

Mathematics Session

Date	October 6, 2023
Length	2 Hours
Topic	Problem Strings, Coding and Simulations in Secondary Mathematics & Formative Assessment
Entity Hosting	Niagara Catholic DSB
Location	Holy Cross Secondary School
Presenter(s)/Facilitator(s)	Jeff Martin, Stefani Markovich, Craig Featherstone
Description	
Math educators will participate in two learning sessions.	
Problem Strings, Coding and Simulations in Secondary Mathematics -- In the first part of this session, we will introduce secondary math teachers to the concept of Problem Strings as a means of engaging student learners in developing a deeper ownership of their previous numeracy foundations and helping them make connections to new algebraic and geometric relationships. The second part of the session will focus on incorporating simulations to demonstrate real world modelling of mathematical relationships in Grades 9-12 and how to develop pseudocode around fundamental mathematical concepts, such as Number Sets, Data Management, Solving Equations, etc.	
Using Formative Assessment to Support Student Learning -- Participants will learn how to use formative assessment as a tool to analyze student learning. Participants will practice moving from using quantitative assessments to building qualitative data stories. They will learn advanced reporting features and build a deeper understanding of how questions and their deliberate answer choices help teachers to analyze student understanding. Finally, participants will dig deeper into the professional development supports provided through Knowledgehook and how to complete a data cycle using the interventions suggested.	