

Self-Directed Learning Task: Integrating Math and Technology through Web Design

	Level 1 or Minimal Achievement (D-/D+)	Level 2 or Limited Achievement (C-/C+)	Level 3 or Significant Achievement (B-/B+)	Level 4 or Exemplary Achievement (A-/A+)
General web design (homepage, first impressions)	Webpage is disorganized, unattractive and difficult to navigate. I am not interested in visiting this website.	All necessary components are present, but design is very simple with little creativity. I may refer to this resource.	Professional design. Evidence of attention to detail. Website is user-friendly and contains helpful teaching and learning tools. I am ready to learn more about integrating math and technology.	Layout is creative, organized, and visually appealing. Web designers have taken risks. Extremely user-friendly. I am eager to learn more about integrating math and technology.
Virtual manipulatives/Resources	Few manipulatives and resources are available.	Manipulatives and resources are limited.	Creators include several valuable manipulatives and resources.	Manipulatives and resources are unique, innovative and will extend and enrich student learning opportunities.
Curriculum Connections (relevance)	Strand and expectations are not considered. I cannot use these resources to support a unit on Grade Four Measurement.	Strand and expectations are referred to vaguely. I am not sure how to use these resources to support a unit on Grade Four Measurement.	Strand and expectations are directly linked to resources/activities. I have a clear understanding of how this applies to the Ontario Mathematics Curriculum. I will use these resources to support student learning when teaching Grade Four Measurement.	Website was created with a clear understanding of the Ontario Mathematics Curriculum and contains activities, resources that fulfill and support the strand/expectations of Grade Four Measurement. I would share these resources with colleagues.
Professional Development	Conferences, tutorials, seminars do not seem helpful. I would not attend.	I may consider attending a conference if I had more information.	Conferences, tutorials, seminars are relevant and will be helpful. I would attend.	Conference, tutorials, seminars are highly relevant and will provide teachers will valuable learning opportunities. Sign me up!
Research	Little evidence of research on virtual and concrete manipulatives. Grammar and spelling mistakes make the report difficult to follow.	Limited research is presented. The report does not inspire me to use virtual and concrete manipulatives in my classroom.	Report is research-based, presented in a clear, concise manner, and is free of spelling/grammatical errors. I understand the importance of using virtual and concrete manipulatives in my classroom.	Author(s) reference scholarly articles and the Ontario Mathematics Curriculum. Report is well articulated and contains valuable information on concrete and virtual manipulatives. I look forward to integrating virtual and concrete manipulatives in my classroom.