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### Evaluation of a Technology Tool Assignment & Scoring Guide

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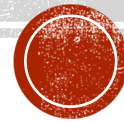
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# EVALUATION OF A TECHNOLOGY TOOL

## UTILIZING TOOLS OF TECHNOLOGY TO ENHANCE STUDENT LEARNING & SUCCESS AT THE SECONDARY SCHOOL LEVEL



Assignment Overview & Guidelines

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## OVERVIEW OF THE PROJECT

- **Goal:** Explore how technology can be used to 1) enhance student learning and 2) strengthen student appreciation of the mathematical content.
- You are encouraged to work with a partner!

### **Task:**

1. Identify a technology resource/tool
2. Review and evaluate the technology resource/tool and report on its applicability to study at the secondary school level
3. Explore the tool yourself and discuss ways in which it may be used in teaching mathematics



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## PART 1 OF PROJECT: PAPER

Requirements following your investigation and discussions:

1. **Write a joint summary, review, and evaluation** of the tool (submit 1 paper, if working with a partner).
  - You may locate articles for your chosen tool and incorporate them into your review.
  - If the opportunity arises, you may try out the activity in the classes that you teaching and discuss the results in the paper and presentation.
  - A thorough outline for your paper is included in the slides to follow.



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## PART 2 OF PROJECT: LESSON PLAN

Requirements following your investigation and discussions:

2. Demonstrate how your tool can be used in teaching mathematics by **creating and sharing a lesson plan (or unit plan) in which the tool will be utilized.**
  - Include activities that show how the tool/resource supports teaching and learning mathematics.
    - Activity may be an original one that you designed, or one suggested by an article or other resource—or both!
  - If working with a partner, each of you must take an active part in the project.



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**Introduction** – Identify the tool you chose and explain why you chose it

▪ Include an explanation of how you:

1. Deciding upon the tool
2. Determining the activity to use
3. Developing the review and evaluation process

## OUTLINE FOR PART 1 OF PROJECT: PAPER

**Body** – Discuss the degree to which specific aspects of the tool, activity, and related materials:

1. Support teaching and learning of specific mathematical concepts related to the **Common Core Learning Standards** and connects to the **Eight Principles of Mathematical Practice**
  - Provide the opportunity to strengthen students' problem-solving abilities
  - Develop conceptual understanding
  - Require reasoning as well as oral and written justification
2. Comment on the ease of use for the tool or note if you have any reservations about using the tool in teaching
3. Suggest modifications or additions, if any, that could enhance the quality of the tool or its use in teaching



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**Conclusion** – After the investigation of this tool:

1. What is your general assessment of the tool for teaching and learning mathematics?
2. Would you recommend it to other teachers?
  - For which courses?
  - Why?
3. Comment on what you have learned from this investigation

**References**

**Notes**

- The paper should be typed, double-spaced, and paginated.
- Use a standard style sheet (e.g., APA, MLA, Chicago).
- As usual, good writing style and proper grammar, syntax, punctuation, spelling are expected.



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## OUTLINE FOR PART 1 OF PROJECT: PAPER

### Scoring Guide for Evaluation of a Technology Tool Assignment

Scores of 4 (Exemplary) and 3 (Proficient) are the desired objective; a score of 2 (Emerging) is acceptable; a score of 1 (Unacceptable) is unacceptable and indicates the standard/indicator has not been met.

Candidates model and apply technology for design, implementation, and assessment learning experiences to engage students and improve learning.

Key Concept: Candidates develop abilities to apply technology to engage students and improve learning.

Standards	Topic	Exemplary	Proficient	Emerging	Unacceptable
1, 2, 3	Integration of Technology: Lesson Design & Plan for Implementation	Demonstrates high level of knowledge, understanding, resourcefulness, and skill in integration of technology. Notable for accuracy and clarity.	Demonstrates a good level of knowledge, understanding, resourcefulness, and skill in integration of technology. Acceptable accuracy and clarity.	Demonstrates generally adequate levels of knowledge, understanding, resourcefulness, and skill in integration of technology. Inconsistent accuracy and clarity.	Does not meet at a satisfactory level applicable standards/ indicators for integration of technology. Deficient in accuracy and/or clarity.
1, 2	Applications of Technology for Enhancement of P-12 Learning: Student Engagement & Assessment of Learning Experiences	Demonstrates high level of knowledge, understanding, resourcefulness, and skill in applications of technology for enhancement of P-12 learning. Notable for accuracy and clarity.	Demonstrates a good level of knowledge, understanding, resourcefulness, and skill in applications of technology for enhancement of P-12 learning. Acceptable accuracy and clarity.	Demonstrates generally adequate levels of knowledge, understanding, resourcefulness, and skill in applications of technology for enhancement of P-12 learning. Inconsistent accuracy and clarity.	Does not meet at a satisfactory level applicable standards/ indicators for applications of technology for enhancement of P-12 learning. Deficient in accuracy and/or clarity.
2, 3	Evaluation of Technology Tool to Enrich Professional Practice & Student Learning	Demonstrates high level of knowledge, skills, and professional disposition of technology associated with a positive impact on the learning and development of all P-12 students. Notable for accuracy and clarity.	Demonstrates a good level of knowledge, skills, and professional disposition of technology associated with a positive impact on the learning and development of all P-12 students. Acceptable accuracy and clarity.	Demonstrates generally adequate levels of knowledge, skills, and professional disposition of technology associated with a positive impact on the learning and development of all P-12 students. Inconsistent accuracy and clarity.	Does not meet at a satisfactory level applicable standards/ indicators for professional disposition of technology associated with a positive impact on the learning and development of all P-12 students. Deficient in accuracy and/or clarity.
3	Content Knowledge	Demonstrates high level of knowledge, understanding, resourcefulness, and skill in content knowledge. Notable for accuracy and clarity.	Demonstrates a good level of knowledge, understanding, resourcefulness, and skill in content knowledge. Acceptable accuracy and clarity.	Demonstrates generally adequate levels of knowledge, understanding, resourcefulness, and skill in content knowledge. Inconsistent accuracy and clarity.	Does not meet at a satisfactory level applicable standards/ indicators for content knowledge. Deficient in accuracy and/or clarity.
3	Pedagogical Content Knowledge & Skills	Demonstrates high level of knowledge, understanding, resourcefulness, and skill in pedagogical content knowledge. Notable for accuracy and clarity.	Demonstrates a good level of knowledge, understanding, resourcefulness, and skill in pedagogical content knowledge. Acceptable accuracy and clarity.	Demonstrates generally adequate levels of knowledge, understanding, resourcefulness, and skill in pedagogical content knowledge. Inconsistent accuracy and clarity.	Does not meet at a satisfactory level applicable standards/ indicators for pedagogical content knowledge. Deficient in accuracy and/or clarity.