Effective Integration Of Technology In the Classroom
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Gwen Hicks has worked in the field of education for 27 years facilitating learning of all ages and stages, from pre-kindergarten to university. She also spent time as a campus and regional administrator to seamlessly integrate new and innovative technology tools and platforms at the classroom, district, and regional levels. Gwen holds a B.A. and M.A. in Education.

Dr. Rebecca Stobaugh is a previous principal and middle and high school teacher. Currently, she serves as an Associate Professor at Western Kentucky University, teaching assessment and unit planning courses in the teacher education program. She has authored three books as well as designed and edited math challenge projects and regularly presents on infusing technology with critical thinking.

Today’s Moderator: Kim Brody, Director of Professional Development for Mentoring Minds
If we teach today as we taught yesterday, we rob our children of tomorrow.”

John Dewey
Goals

• View technology integration as essential to student success
• Recognize the importance of connecting technology to instruction
• Consider purposeful steps when planning for effective integration in the learning process
• Become familiar with instructional strategies and resources that engage students in technology
Requirement for Technology Integration: Change

1. Plan for Change
2. Implement the Change
3. Assess for Change
4. Prepare for Change
5. Change Management
6. Sustaining the Change

Success
Rationale

• Helps improve the learning culture by providing motivation

• Promotes student-centered, engaged learning

• Increases student responsibility for learning

• Makes learning experiences relevant

• Increases teacher productivity
Backchanneling

- Go to the following site:
  - Todaysmeet.com/MM2

- Answer this question:

In your opinion, **why is technology integration needed?**
Why is technology integration needed?

- The wide availability of new and emerging technology tools can provide powerful teaching and learning tools.

- Technologies encourage skill development (e.g., complex thinking, creative problem-solving, collaboration).

- Students must be taught how to use technology well and wisely as they live in a digital world.
Effective Tools for Learning

Using technology in isolation is not the answer!
Effective Tools for Learning

- How technologies deepen learning
- How to use technologies in relation to pedagogical strategies
Integration of Technology + Pedagogy = Differentiated learning options and resources for teaching and learning
Differentiate Instruction

• What are some technology tools that help differentiate instruction?

• Post your answers on Padlet:
  – http://padlet.com/rebecca_stobaug/MM
Pedagogy and Technology Integration

• Increase student engagement

• Drive higher-order thinking
Role of the Teacher

- Facilitator
- Coach
- Guide
- Mentor
Effective technology integration is achieved when its use supports curricular goals.”

Edutopia (2013)
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Edutopia (2013)
Plan for Integrating Technology
Step 1: Identify the Advantage

- Does an advantage exist?
- Assess the needs of the classroom.
Step 2: Determine the Objective

Assessment

- What will students be able to do?
- How will students show that the objective is met?
- How will students demonstrate their learning?
Step 3: Design Instructional Strategies

• Consider readiness levels.

• Determine group formats.

• Demonstrate how to use the technology.
Step 4: Establish the Environment

- Is the classroom layout sufficient?
- What other materials are needed?
- Have I informed parents of the new technology?
- What is my backup plan?
Step 5: Analyze Results, Evaluate, and Revise Practices

- Revisit objectives and assessments.

- Analyze results.
  - What worked?
  - What did not work?

- Evaluate and make revisions.
  - Why did it work/not work?
  - What did you learn?
  - What will you do differently?
Planning for Technology Integration

• Does the use of the selected technology increase student engagement?

• Does the use of the selected technology make the learning more relevant?

• Does the use of the selected technology offer opportunities for authentic connections?
Which one area do you need to spend more time thinking about when planning?

- Increase Student Engagement
- Make Learning Relevant
- Drive Higher Order Thinking

Respond at PollEv.com/mentoringmin605
Text MENTORINGMIN605 to 37607 once to join, then A, B, or C
Web Tools to Support Integration
Technology Tools/Resources
What technology tool have you used or do you plan to use increase student learning?

When poll is active, respond at PollEv.com/mentoringmin605

Text MENTORINGMIN605 to 37607 once to join
Technology Tools/Resources

- www.edutopia.org
- www.nearpod.com/how-it-works
- www.teachingchannel.org
- www.qrstuff.com
- https://edshelf.com
- www.appitic.com
- www.teachhub.com/20-amazing-ipad-apps-educators
- www.ala.org/aasl/standards-guidelines/best-websites/2014
- http://edtechteacher.org/tools
Key Points

- Technology integration **does not happen by accident.**

- The teacher **plans and determines how and when technology fits into the teaching-learning process.**
Key Points

• Provides instruction tailored to the needs of students

• Creates motivation for active engagement with content

• Offers variety in teaching and assessing learning
Key Points

- Allows learning opportunities outside the classroom, extending learning time
- Prepares students to achieve, to be innovative, and to compete globally
Planning for Effectiveness
Questions
References


