Effective Integration of Educational Technology
Empowering Health Science Education Teachers

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Objectives

1. Review educational technology integration theories
2. Explore practical strategies for aligning technology with content and pedagogy to create engaging, interactive learning experiences

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Pedagogy

- *How* you teach – what you do and what you ask students to do
- Driven by learning objectives – what students should be able to know and do
- Influences curriculum design
- Shapes the learning environment and student engagement

Bloom's Taxonomy

- **create** — Produce new or original work
  Design, assemble, construct, conjecture, develop, formulate, author, investigate
- **evaluate** — Justify a stand or decision
  appraise, argue, defend, judge, select, support, value, critique, weigh
- **analyze** — Draw connections among ideas
  differentiate, organize, relate, compare, contrast, distinguish, examine, experiment, question, test
- **apply** — Use information in new situations
  execute, implement, solve, use, demonstrate, interpret, operate, schedule, sketch
- **understand** — Explain ideas or concepts
  classify, describe, discuss, explain, identify, locate, recognize, report, select, translate
- **remember** — Recall facts and basic concepts
  define, duplicate, list, memorize, repeat, state

Vanderbilt University Center for Teaching

TPACK Framework

(reproduced with permission from http://tpack.org)

High quality learning occurs within the space where technology, pedagogy, and content knowledge intersect

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SAMR Model

Redefinition
Tech allows for the creation of new tasks, previously inconceivable

Modification
Tech allows for significant task redesign

Augmentation
Tech acts as a direct tool substitute, with functional improvement

Substitution
Tech acts as a direct tool substitute, with no functional change

Transformation
Enhancement

(Puendetura, 2012)

Nearpod

join.nearpod.com

D5LHM

Short Audio / Video Recordings

Journal Entries
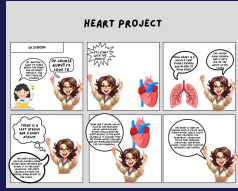
Student Reflection

Teacher Feedback

Google Slides
Vision Boards, Fillables, Book Design

Google Slides
Stop Motion Animation

Adobe Express and Canva

- PSA posters, fliers, billboards
- Infographics
- Timelines
- Comic strips
- Social media posts
- Voiceovers, animations, videos

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Canva

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Adobe Express

HOW TO MEASURE BLOOD PRESSURE
By Patch Adams

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Microsoft OneNote
Digital Escape Rooms

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MindMeister

- Mind mapping
- Graphic organizational tool
- Individual or group work
- Class discussion

bit.ly/47HF8Fj

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