Using Technology in the Classroom

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What is Available?

Probably more than you think

- Smart rooms
  - PowerPoint / Keynote / DVD / VCR / Doc cam
- Camtasia
- Livescribe pens
- iClickers
- D2L
- ...and more
Smart Rooms

- Several rooms on campus
- Can be used either with PC or laptop
- Always give yourself time to set up
Camtasia

- Lecture capture software
- Available to all
- Advanced, but easy
- Excellent way of reaching students out of class

**Record It All**
Use Camtasia's powerful screen recorder to capture anything on your screen. Or, import camera video, music, photos, and more to truly customize your videos.

**Create Powerful Videos**
Edit and enhance your videos with Camtasia's powerful editor, ready-to-use themes, animated backgrounds, graphics, callouts, and more.

**Engage Your Audience**
Produce interactive videos with clickable links, tables of contents, search, and more. Then, easily share videos that your viewers can watch anywhere, anytime.
Clicker Question

Which of the following molecules or ions have the same number of valence electrons: SO₂, CO₂, NO₂⁻, ClO₂⁻?

a. SO₂ and CO₂
b. SO₂ and NO₂⁻
c. CO₂ and ClO₂⁻
d. NO₂⁻ and ClO₂⁻
e. SO₂, NO₂⁻, and ClO₂⁻
Livescribe Pens

- Generally a self-purchase
- Very useful to communicate single ideas or problems
- Virtual office hour
Pencast Example

How many moles of carbon react completely with 0.026 moles of SiO$_2$ according to the following balanced equation?

$$\text{SiO}_2 + 3\text{C} \rightarrow \text{SiC} + 2\text{CO}$$

0.026 moles

$? \text{ moles}$

\[ \text{g A} \quad \text{g B} \]

mole $\text{A}$

mole $\text{B}$
iClickers

- Generally used by instructors of class/recitation
- Most students have
- Easy to use, very effective in assessing understanding

Instructors ask questions through any presentation application
Students answer questions with a remote or smart device
Instructors display results in real-time and record responses
Desire 2 Learn (D2L)

- CMS used at MSU
- Easy way to communicate or transfer material to students
- ecat.montana.edu
Tablet Software

- Screen Chomp
- Adobe Voice
- Dragon
- Prezi
- MathPad