Using Technology in the Classroom
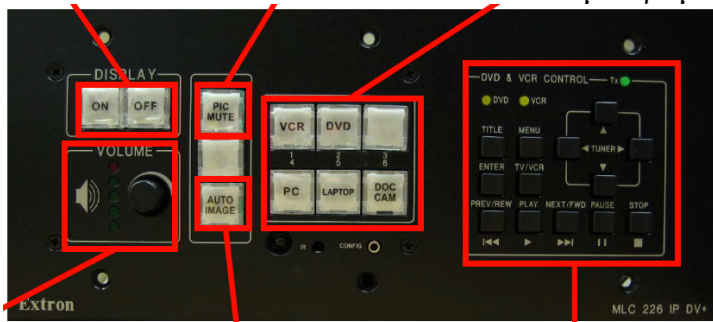
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What is Available?

- Probably more than you think
  - Smart rooms
    - PowerPoint / Keynote / DVD / VCR / Doc cam
  - Camtasia Relay
  - Livescribe pens (Some depts)
  - 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
- Some rooms have a different setup/equipment

Camtasia Relay

- Lecture capture software
- Available to all faculty
- Advanced, but easy (training through CFE)
- Excellent way of reaching students out of class
- Full version is much more flexible but must be purchased

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.

Camtasia Example

Clicker Question

Which of the following molecules or ions have the same number of valence electrons: SO_2, CO_2, NO_2^-, ClO_2^-?

a. SO_2 and CO_2
b. SO_2 and NO_2^-
c. CO_2 and ClO_2^-
d. NO_2^- and ClO_2^-
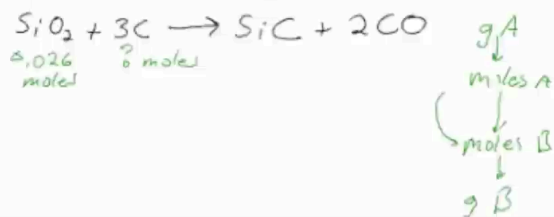e. SO_2, NO_2^-, and ClO_2^-

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Livescribe Pens

- Generally a self purchase
  - some depts have
- Very useful to communicate single ideas or problems
  - Good for addressing problem areas
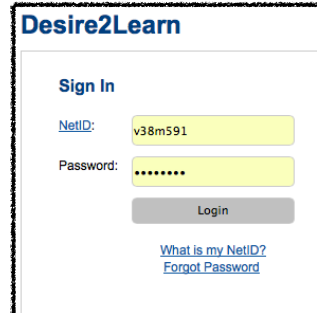- Virtual office hour

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Pencast Example

How many moles of Carbon react completely with 0.026 moles of SiO_2 according to the following balanced equation?

$SiO_2 + 3C \longrightarrow SiC + 2CO$

0.026 moles
? moles

gA
moles A
moles B
gB

Desire 2 Learn (D2L)

- CMS used at MSU
- Easy way to communicate or transfer material to students
- ecat.montana.edu
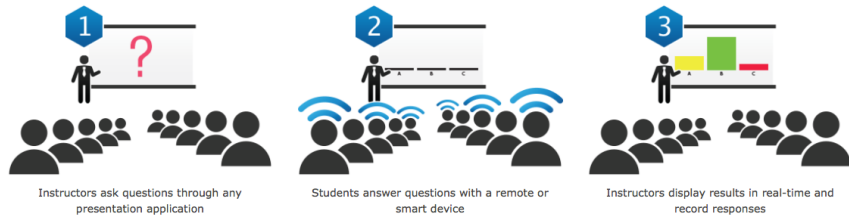 - need to make class active

Desire2Learn

Sign In

NetID: v38m591

Password: ••••••••

Login

What is my NetID?
Forgot Password

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

iClickers

- Can be used for either multiple choice or short answer
  - short answers require that students have iclicker2
- Software is free
  - training is available through CFE

Best practice issues

- Attendance
- Points
- Quizzes
- Forgotten clickers

Tablet Software

- Show Me
- Adobe Voice
- Dragon
- Doceri
- Touchcast
- MathPad