Engaging Students with PowerPoint

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LiveWeb and Chime images are shown static here.
Your presenter...

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CURRENT POSITION
Professor and Chair of Physical Sciences and Engineering

Webpage using LiveWeb would have been embedded here!
Mode of questioning

The order of penetration of radiation for materials is:

\[ \text{gamma (}\gamma\text{)} > \text{beta (}\beta\text{)} > \text{alpha (}\alpha\text{)} \]

or could we...
Which form of radiation is most penetrating?

alpha
beta
gamma

Paper | 0.5 cm lead | 10 cm lead

Animation using motion paths: Custom animation > add effect > motion path
Turbidity and Light Penetration

What is the biological importance of light penetration to submerged aquatic vegetation (SAV)?

As turbidity increases, light penetration decreases.
Our goal...

To prevent death by PowerPoint!!!
and
not use the flying word stuff!!!

http://www.oldsongs.org/festival/asleep2006au2.html
Interactive items...

What is this?

The answer button

You would hide this with selecting your background

Interactive Chime structure with LiveWeb

The answer button is set up to trigger an animation, the exiting of the blue box.
LiveWeb

• A macro that allows webpages and other files to be embedded in PowerPoint slides

• Avoids jumping out of PowerPoint!!!!
Inserting a webpage - do this before adding any text and you can resize window on slide afterwards

1a.

2. Insert a webpage into your presentation.

3. Add full URL for internet sites, such as http://academic.pgcc.edu/~ssinex

For local files in your presentation folder - just add file name

1b.
Animation trigger button

1. Get the button

2. Add text by right clicking on the button, select Edit Text

3. Get box and right click, select custom animation

4. Select add effect and EXIT

5. Click dropdown and select timing

2007: Home tab > shapes

Answer
1. Click triggers

2. Select start effect on click of

3. Dropdown the menu and Select your object, it will have any label text here to help locate it
For action button control

1a. Go to slide transition

2. Down the slide transition side menu, find advance slide

3. Deselect “on mouse click”

1b. or right click on the slide

To hide the slide, select the slide and go to the slide show menu and select hide slide.

1c. Animation tab > advance slide
Developing an interactive student tutorial in PowerPoint

The action button labeled “Start” is linked to another PowerPoint file.

Done using drawing tools!
1. View > toolbars
Control toolbar
Select a Textbox

2. Right click on the textbox and select properties

You may want a scroll bar if a lot of text is to be typed in

3. Set these to true

Adding an interactive textbox that you can type into in the Presentation mode and the text can be saved at the end.

Great for student answers.

You can type in this box during your presentation!

Try it...

Students can add answers in tutorials too!!!
Non-linear presentation

Start
Cartooning in PowerPoint

Just a hyperlink to another PowerPoint file

When does anoxia, lack of dissolved oxygen, occur during the year?

This is a series of slides that we will flip through.
Press ESC button to stop.
animations...

Animated gif – will play in show mode

Movie –

Animate in PowerPoint – use drawing tools

http://photojournal.jpl.nasa.gov/catalog/PIA06674

Circle the watershed

instructions
For pictures: jpeg or gif

Animated gifs play in the slide show mode only!!

For movies and sound files

Movie files are kept separate, so place in your presentation folder before linking.
The Signs of the Quadrants in Mathematics

- Both x and y positive
- Both x and y negative
- x positive, y negative
- x negative, y positive

Constructed using the drawing tools
1. Select record narration from the slide show menu.

2. In the Record Narration window, adjust quality settings to achieve desired sound quality and disk usage. Higher recording quality uses more disk space. Large narrations should be linked for better performance.

3. The file gets really big.

4. Slide advance is set to automatic.

Recommendation from a narrator: write out your script!!!
Annotating with PowerPoint

Map drawn with drawing tools! Annotations can be saved at conclusion.

Move cursor over
ZoomIt

As you can obviously see...

or NOT!!!

http://www.photolib.noaa.gov/htmls/line0730.htm
**Pythagorean Theorem**

\[ a^2 + b^2 = c^2 \]

- \( a = 3 \)
- \( b = 2 \)

\[
\begin{align*}
\text{areas are equal} \\
= & \\
\text{sum} & = 13 \\
a^2 & = 9 \\
b^2 & = 4 \\
c^2 & = 13 \\
c & = 3.6055513
\end{align*}
\]

This is the length of the hypotenuse, the side opposite the right angle.

Interactive Excel spreadsheet with LiveWeb
Why exit animation?

• Use a background colored box with exit animation – hides answer on screen and during printing!!

• Students must view animated slides!!
### Save As...

#### File formats

<table>
<thead>
<tr>
<th>Save as type</th>
<th>Extension</th>
<th>Use to save</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation</td>
<td>.ppt</td>
<td>A typical Microsoft PowerPoint presentation</td>
</tr>
<tr>
<td>Windows Metafile</td>
<td>.wmf</td>
<td>A slide as a graphic</td>
</tr>
<tr>
<td>GIF (Graphics Interchange Format)</td>
<td>.gif</td>
<td>A slide as a graphic for use on Web pages</td>
</tr>
<tr>
<td>JPEG (File Interchange Format)</td>
<td>.jpg</td>
<td>A slide as a graphic for use on Web pages</td>
</tr>
<tr>
<td>PNG (Portable Network Graphics Format)</td>
<td>.png</td>
<td>A slide as a graphic for use on Web pages</td>
</tr>
<tr>
<td>Outline/RTF</td>
<td>.rtf</td>
<td>A presentation outline as an outline document</td>
</tr>
<tr>
<td>Design Template</td>
<td>.pot</td>
<td>A presentation as a template</td>
</tr>
<tr>
<td>PowerPoint Show</td>
<td>.pps</td>
<td>A presentation that will always open as a slide show presentation</td>
</tr>
<tr>
<td>Web Page</td>
<td>.htm; html</td>
<td>A Web page as a folder with an .htm file and all supporting files</td>
</tr>
<tr>
<td>Web Archive</td>
<td>.mht; mhtml</td>
<td>A Web page as a single file including all supporting files</td>
</tr>
</tbody>
</table>
first thing to do...

- Create a presentation folder
- Save your PowerPoint file to this folder
- Add movies, sound files
- Add documents with LiveWeb links - such as Excel files
- Narration sounds files will go here if you don’t embed them
More resources...


S. Loomis (2007) Using the Annotation Tools in Microsoft PowerPoint
http://scottloomis.net/resources/Using+Annotation+Tools+in+Microsoft+PowerPoint.doc

S. Loomis (2007) Inserting Text Box Objects in Microsoft PowerPoint

http://www.loyola.edu/edudept/PowerfulPowerPoint
Still more resources...

http://academic.pgcc.edu/~ssinex/DPP/DynPP.ppt

S.A. Sinex (2008) Instructional Technology Tools (many other easy tools to use)
http://academic.pgcc.edu/~ssinex/ITTools

http://academic.pgcc.edu/psc/DPP_guide.pdf

http://

Dynamic PowerPoint: Using PowerPoint’s Interactivity Features to Create Games, Quizzes, Menus, Tutorials and More
Still more resources...

Freeware/Add-ins:

LiveWeb - a macro that will allow you to embed webpages or other files in PowerPoint (instructions for installing are given as well; note versions for PowerPoint 97-2003 and PowerPoint 2007)
http://skp.mvps.org/liveweb.htm

ZoomIt - screen enlarging freeware plus it allows for annotations and a timer

2007 Microsoft Office Add-in: Microsoft Save as PDF or XPS
Contact...

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Thanks for attending too!