Interactive Classrooms w/ Student Response Systems

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Introduction

Currently a Masters candidate – Educational Technology
5 years Technology Coordinator – Lahaina Intermediate School
5 years Math Teacher
Qualifications/Ramifications
Background

Old Quarterly Assessment data
Background

💥 Turning Point
Student Response System (SRS)
Background

🌟 ETS data management system.
Student Response Systems (SRS)
SRS in the Classroom

Students -
- Like immediate feedback
- Like anonymity of response
- Like comparing answer to others in class
SRS in the Classroom

Students -
- Like immediate feedback
- Like anonymity of response
- Like comparing answer to others in class

Teachers –
- Like immediate feedback
- Like flexibility of devices
**Student Response Systems (SRS)**

Have you used SRS either as a **student/participant** or a **teacher/presenter** in a class or presentation?
SRS/Turning Point components
Nine Reasons to Bust out the “Clickers”

Engaging your students with the help of Student Response Systems
Tom Norton, Lahaina Intermediate School
December, 2008
Instructional Design Project

The purpose of this study is to measure the effectiveness of an instructional module designed to help teachers implement interactive lessons into classrooms utilizing a Student Response System from Turning Technologies.

“The Systematic Design of Instruction” – Dick, Carey, & Carey
Methodology: Performance Objectives

Teachers who have completed the training should be able to:
1. convert a regular lecture-type lesson
Methodology: Performance Objectives

Teachers who have completed the training should be able to:

1. convert a regular lecture-type lesson
2. create a presentation
Methodology: Performance Objectives

Teachers who have completed the training should be able to:
1. convert a regular lecture-type lesson
2. create a presentation
3. create a participant list
Methodology: Performance Objectives

Teachers who have completed the training should be able to:

1. convert a regular lecture-type lesson
2. create a presentation
3. create a participant list
4. initialize and use hardware components
Methodology: Performance Objectives

Teachers who have completed the training should be able to:
1. convert a regular lecture-type lesson
2. create a presentation
3. create a participant list
4. initialize and use hardware components
5. save the response data and create a report.
Methodology: Development

Create Ten Discrete Elements
Methodology: Development

- Create Ten Discrete Elements
- Online Delivery of Instruction
  - Best Fit for Teachers
  - Anytime/anywhere delivery
Methodology: Development

- Create Ten Discrete Elements
- Online Delivery of Instruction
  - Best Fit for Teachers
  - Anytime/anywhere delivery
- Utilized Learning from previous Instruction
  - Online Instruction
  - Multimedia Instruction
Methodology: Development
Methodology: Development
Online Instructional Site

Interactive Classrooms with S.R.S.
A Training Module for Teachers

Best Use Practices using SRS

Summary: An introduction to suggested practices in converting an existing lesson plan to an interactive one, creating questions and answers, and two different question delivery methods.

Please take and submit the accompanying pre-test and post-test linked below. You will need to click on the Tutorial link after completing the Pre-test to view video.

Take Pre-test prior to viewing video.
Take Post-test after viewing video.

Best Use Practices for Student Response Systems
Results: Data Collection

Instruments

– Pre-test & Post-Test for Best Use Module
– Post-Instruction Survey
Results: Data Collection

Instruments
- Pre-test & Post-Test for Best Use Module
- Post-Instruction Survey

Participants (6 total)
- Four completed Pre-Test & Post-Test
- Four completed Post-Instruction Survey
- Two completed all three instruments
Results: Pre- & Post-Test

- Tested Best Use Module
- Correct answers rose from 50% to 80%
- Range of improvement on correct answers
  - Least - Zero
  - Most - Three
## Results: Post-Instruction Survey

### Usefulness Ratings for Instructional Elements

<table>
<thead>
<tr>
<th>Element Title</th>
<th>Very</th>
<th>Somewhat</th>
<th>Not At All</th>
<th>Did not Watch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best Use Practices</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Creating a Basic Slide</td>
<td>4</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Setting a Correct Answer</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Inserting a Timer</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Creating an Import File</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Creating Participant List</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Modifying &amp; Deleting a Participant List</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Running a Presentation</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Using the TP Showbar</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Generating Reports in TP</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Results: Post-Instruction Survey

“Hearing and seeing exactly what to do makes all the difference for me. I could see where to go, hear it, and see the results.”

“I like the way its broken into steps with exact steps to follow.”

“Pretty much everything was new to me. I probably could have installed and used the clickers in my classroom without the training module. However, now that I have seen all the other functions I know I will be able to use them more effectively.”

“Very well done! Voice very clear - directions simple and direct. The slow pacing will help me when I refer back for help!”
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Reflection/Discussion

- Online Instruction can help teachers
- Factors limiting extrapolation
  - Limited number of participants
  - Quality of responses
Reflection/Discussion

Where to from here?

– Add features to existing module
  • FAQ
  • Video of Clickers used in classroom
– Expand training to other Turning software
– Create similar training for other programs
  • Edline school portal
  • Qomo wireless tablets
Questions?