Google Apps and Maps for Use in Blended and Online Courses

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Objectives:

1. Use several created Google Docs and describe at least two uses for docs, forms, spreadsheets, presentations, and draw.
2. Create one Google Site with some content and describe several uses for Sites in teaching.
3. Create a Google "My Map: and place several markers with annotations on that map and describe at least two uses for "My Maps" in teaching.
Accessing the Presentation

Published at this URL:  
[Google Apps and Maps for Use in Blended and Online Courses](#)
Plan for today:

- 1:30 - Introduction / Google Docs activity
- 1:50 - Introduction / Google Forms activity
- 2:20 - Introduction / GSpreadsheets activity
- 2:45 - 2:55 - 10 minutes BREAK!
- 2:55 - Introduction / GPresentation & GDraw activity
- 3:20 - Introduction / Google "My Maps" activity
- 3:45 - Introduction / Google Sites activity
- 4:25 - Wrap-up / final questions
Google Docs Activity:

**Getting to Know Each Other!**
Google Forms
Seven Kinds of Questions:

1. Text
2. Paragraph Text
3. Check Box
4. Grid
5. Multiple Choice
6. List
7. Scale

Exercise: What's for Dinner?

Spreadsheet and Form Editor
Google Forms Activity:

See Quiz:  Quiz Example

Spreadsheet to Editor: Spreadsheet plus editor

Make Quiz: Build a Quiz
Uses in Teaching

1. Review and branch for remediation **
2. Emotion Graphs **
3. Exam wrappers **
4. Surveys **
5. Peer evaluations - embed form in Sites or Docs **
6. Close or exit ticket - evaluate lesson

** Examples given
Examples:

1. Emotion Graphs -
   a. Piano Emotion graph- Piano Emotion Graph
   b. The Piano - animated short - on YouTube


3. Surveys -
   a. Global Hunger
   b. Biotechnology

4. Peer Evaluations
Google Spreadsheet

Google Spreadsheet
Spreadsheets are both for calculations and for data bases

- **Spreadsheet Activity instructions**
- **Calculation activities - Basic**
- **Database activities - Advanced**

- **Practice worksheets**
  - Red Group
  - Yellow Group
  - Green Group
  - Blue Group
  - Orange Group
Uses in Teaching

1. Data Collection - labs, field studies **
2. Charting results - **
3. Visualization - **
4. Statistics
5. Student Administration (signing up for topics)
6. Project Planning
7. Flash Cards - language / definitions / chemistry **

** Examples given
Examples:

1. Data Collection / Display -
   https://docs.google.com/a/ncsu.edu/spreadsheet/ccc?key=0Aol4k38DTHY8dDhaVERta0d1WGFJa09rVi1leURpdUE#gid=0
   a. Gadget -
      https://docs.google.com/a/ncsu.edu/spreadsheet/ccc?key=0Aol4k38DTHY8dDhaVERta0d1WGFJa09rVi1leURpdUE#gid=7
   b. Chart -
      https://docs.google.com/a/ncsu.edu/spreadsheet/ccc?key=0Aol4k38DTHY8dDhaVERta0d1WGFJa09rVi1leURpdUE#gid=8

2. Study Tools -
   https://docs.google.com/a/ncsu.edu/spreadsheet/ccc?key=0Aol4k38DTHY8dDhaVERta0d1WGFJa09rVi1leURpdUE#gid=3
   a. Flash Cards -
      https://docs.google.com/a/ncsu.edu/spreadsheet/ccc?key=0Aol4k38DTHY8dDhaVERta0d1WGFJa09rVi1leURpdUE#gid=4
   b. Word Definitions -
      https://docs.google.com/a/ncsu.edu/spreadsheet/ccc?key=0Aol4k38DTHY8dDhaVERta0d1WGFJa09rVi1leURpdUE#gid=5
Google Draw
Concept Map

**Endocrinology**

- **Definition**
- **Hormone Concentration for Action**
- **Types of Secretions**
  - exocrine
  - endocrine
  - paracrine
  - autocrine
- **Reproductive Hormones**
- **Ways Hormones Travel**
  - peptides
  - prostaglandins
  - steroids
  - proteins
- **Classes of Hormones**

**Reproductive Hormones**
- milk
  - secretes
  - into ducts
- sweat

**Types of Secretions**
- exocrine
- endocrine
- paracrine
- autocrine
• **GDraw Demonstration**

• **Google Draw Activity**

• **Google Presentation for GDraw / GPres activities**
Google Draw

Uses in Teaching

1. Concept Mapping / Word Webs **
2. Flow Charts **
3. Annotation of Images **
4. Instructions
5. Venn Diagrams
6. Homework Problems
7. Descriptive Student Handouts for Lab

** Examples given
CS 111 Game Flow Design
(Initial concept design)
Annotate Images

Google Draw

Petals

Stigma / Style

Anther / Stamen
Google Presentation
Uses in Teaching

1. Publishing your presentations (File>Publish to the Web) **
2. Creating a photo essay collaboratively **
3. Project presentations by students
4. Textual analysis of writing **
5. Making quiz cards **

** Examples given
Examples:

- Textual Analysis of Writing: published example; actual document

- Photo Essay: Snow in Six Words

- Quiz Cards:
  - Student (group) generated quiz card from template - YouTube video
  - Webpage instructions and example - for above video
Uses in Teaching

1. Improving the Writing Process **
2. Creating "presence" in your classroom **
3. Error Correction exercises **
4. Homework Collaboration
5. Writing a Lab Report with partner **
6. Keeping a journal / reading response

** Examples given
Improving the Writing Process

- Collaborative work is seamless
  - feedback can be provided at any time
- Allow editing, commenting, or viewing privileges
- Built in dictionary & thesaurus
- Built in Research function:
  - Quotes
  - Images
  - Scholar
  - Everything
- Automatic save / Revision history
- Publish to the web

Example: Using the Research Function
Examples:

- **Creating Presence in Class** *(face-to-face or online)*

- **Writing Lab Report with Partner: Create your own Template - Create > Template**
  - *Example (Google Drive)*

- **Error Correction - Critical Thinking**
  - Document - deliberate errors in it. Foreign language courses or ESL
  - Case Studies - what's wrong? - information incorrect/ something missing?
  - Technical writing - what is wrong with this document?
  - Math problem - solution correct - logic wrong. What's wrong?
  - Computer code - problem when you run this code. How do you fix it?
Google Apps
Size

There are limits on the size of files you can upload for each Doc type.

• depends on what type of file it is
• depends on whether your institution has its own domain
• depends on whether you have bought more space

More Information
Collaborators

There are limits on the number of synchronous collaborators for each Doc type.

- 10 people can edit a Presentation at the same time.
- 50 people can edit a Spreadsheet simultaneously.
- 50 people can edit a Document at the same time.
- There is a limit of 200 combined viewers/collaborators for all of the different Doc types.
- Group emails count as one "people"

More Information
Google Maps
• Open: maps.google.com
• Demonstration on making a Google map
• Map activity - try one on your own / group.

• Resources
  ○ Stories for Maps and Sites Activities

• Samples (trial balloons):
  ○ N.C. Archaeological Sites
  ○ Indian Tribes of Wisconsin
Uses in Teaching

1. History: Historical sites for various battles, settlements, migrations, trade routes
2. Literary: Trace journeys from books, literary trails in various cities / areas, cities identified in works
3. Archaeology - locations of digs / artifacts, comparison of time periods of development, trace advance in crop migrations, look at people movements
4. Biology - distribution maps for animals and plants, study of biomes by terrain, altitude
• Open: sites.Google.com
• Demonstration on making a Google site
• Google sites activity - try one on your own / group

• Resources
  o Stories for Maps and Sites Activities

• Samples (trail sites)
  o BAE 578 (shown only at conference - FERPA issues)
  o Paris trip
Google Sites

Uses in Teaching

1. e-Portfolios **
2. Wikis or Blog **
3. Class Projects **
4. Speciality website **
5. Course website **

** Examples given
Examples:

- Embed a Google Form and Spreadsheet into GSite - Language Arts class
- Class Project -  example 1
- e-Portfolios -  example 1;  example 2
- Course in Google sites -  example 1,  example 2
- Blogs -  example 1
- Wikis -  example 1
Resources:

- Google Docs help
- Google Maps - interactive tutorial on My Places page
- Google Sites help
- Google User Guides
- 50 Little-Known Ways Google Docs Can Help In Education
- Google - What's New
Thank you!

Questions?