

# Blended Learning: What, Why and How

Dropbox for Research Projects - March 21 - Submit Files

Dropbox Usage

0%  100%

> More Info

Hide Folder Information

Folder

Dropbox for Research Projects - March 21

Submit Files

Files to submit \*

(0) file(s) to submit

After uploading, you must click Submit to complete the

Add a File Record Audio

Comments

Feedback

abc </>

Add a File Record Audio

Enter a subject

Paragra B I U Font Fa Size

> Add attachments

Post Cancel

My Locker

Upload Files New File New Folder

Search For:  Show Search Options

0 Bytes (0 %) of 5.12 MB used

There are no files currently stored in this locker.

Assiq_S.docx (16.22 KB)	Sep 25, 2016 8:18 PM
RESUME.docx (14.09 KB)	Sep 30, 2016 10:17 AM
MY CHRISTMAS BREAK SCHEDULE.docx (14.15 KB)	
Kevin_Joseph-Resume.docx (14.00 KB)	Sep 19, 2016 10:25 AM
Connor_Kennedy_Resume.docx (14.28 KB)	Sep 21, 2016 10:15 AM
EDUCATION_2.docx (17.05 KB)	Oct 5, 2016 1:00 PM
b2resume.docx (13.22 KB)	Sep 25, 2016 8:54 PM
Bojun_Kim_resume.docx (246.44 KB)	Sep 25, 2016 3:33 PM

The BTA Course So Far...

Andreas De La Hoz Fontalvo posted Oct 14, 2016 9:31 PM

Two things that I like about this online course is that it effectively teaches the basics of very important and useful programs like Microsoft Word and that the study hours are very flexible and dependent on your own schedule. I myself was not did not know how to use formulas in, but this course has allowed me to explore the program and learn how to use them. I really have enjoyed learning about the different features in Excel, as well as all the formulas that can assist me in workbooks. Another part of this course that I have enjoyed, is the fact that I am able to work from wherever and whenever I want.

0 Unread 0 Replies 2 Views

The BTA course so far...

Christina Hanna posted Oct 16, 2016 11:55 PM

So far, the two things I like about this course is the flexibility for assignments and work and the many instructions. assignments have a video or PDF attached that we can view to help us along the way. Also, I am wanting to be more like Microsoft Word or MS excel etc and this course has helped me a lot and shown me tips and ways on how to make use of the program.

0 Unread 0 Replies 2 Views

My Opinion on the BTA Course so far...

Christina Koumoutsidis posted Oct 11, 2016 9:11 AM

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0 Unread 0 Replies 5 Views

Actions For The BTA Course so Far...

Damon Burgess posted Oct 15, 2016 4:36 PM

Two things that I like about this course is that it is very flexible to my schedule and I can work on it whenever best teaching me how to use programs I wasn't very familiar with. Two things I don't like is that the MS Excel unit really assignment was extremely similar and how difficult it is to get in touch with your teacher. Two tips that I could offer in this course is to watch the videos for the assignments and take them step by step, and also not to save all your work.

0 Unread 0 Replies 1 Views

ePortfolio My Items Explore

Settings Search Newsfeed

Build your ePortfolio

**New Presentation**  
Showcase your skills and achievements for others.

**New Collection**  
Organize ideas, discoveries, and accomplishments.

Add Other Items

0 Unread Invites

You have no unread invites. [View invites page.](#)

What are you learning?

Add Files Add Link

Filter by: My Items Shared Items Subscriptions Friends List

Steven Floyd

9

Edited by Steven Floyd March 25 3:37 PM

Comment

# Steven Floyd – M.Ed.

High School Computer Science and Computer Engineering Teacher - LDCSB

Lead Mentor FIRST Robotics

Lead Teacher SHSM – ICT

Recipient of 2016 Award for Teaching Excellence in Computer Science  
(from Infosys Foundation USA, ACM, the Association for Computing Machinery and  
CSTA, Awards for Teaching Excellence in Computer Science)

[sfloyd@ldcsb.ca](mailto:sfloyd@ldcsb.ca)

[@stevenpfloyd](https://twitter.com/stevenpfloyd)

# Blended Learning – Why This Topic...

The Chromebooks are coming!

## Thames Valley school board to test free Chromebooks for Grade 9 students at eight schools



By Hank Daniszewski, The London Free Press  
Monday, April 3, 2017 3:23:34 EDT PM



# Blended Learning – Why This Topic

“Blended” won’t really be a word anymore.

~~Online world~~  
~~Offline world~~

## Thames Valley school board to test free Chromebooks for Grade 9 students at eight schools



By Hank Daniszewski, The London Free Press  
Monday, April 3, 2017 3:23:34 EDT PM



# Blended Learning – Why This Topic

\$\$\$

Photocopying Budgets

Textbook Budgets

# Blended Learning – Why This Topic

All teachers will be blended learning teachers.  
Are we ready?



# Blended Learning – Why This Topic

What 21<sup>st</sup> century skills did you need to attend this conference?

Register online? Access website and agenda?

Social Media planning? Downloading slides?

Emailing, tweeting, messaging, presenters, colleagues?

Requesting time away?

What would be a good way to develop these skills in our students?

# Blended Learning – Why This Topic

This conference is blended!

Our careers are blended!!

Our life is blended!!!

The whole world is blended!!!!

A valuable and authentic way to embed  
21<sup>st</sup> century skills and competencies into every classroom



# Blended Learning – Why This Topic

I do it

I love it

I believe it is important for students

# Our Work

```
package premiershipdemo;

import java.io.*;

public class PremiershipDemo {

    public static void main(String[] args) {

        String valueReadS;
        int valueReadI;
        int total;
        int firsthalf;

        firsthalf = 0;
        secondhalf=0;
        total = 0;

        try

        {FileReader file = new FileReader ("goalsTrial.in");
        BufferedReader buffer = new BufferedReader(file);

        while ((valueReadS = buffer.readLine())!=null)

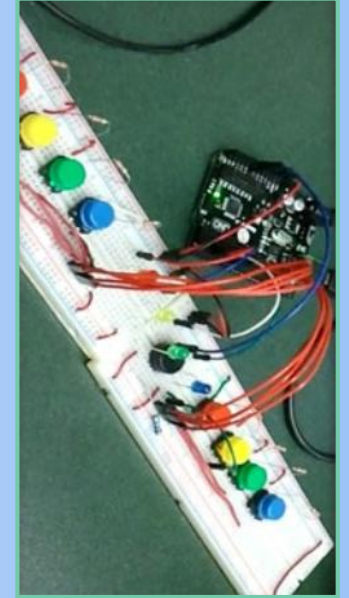
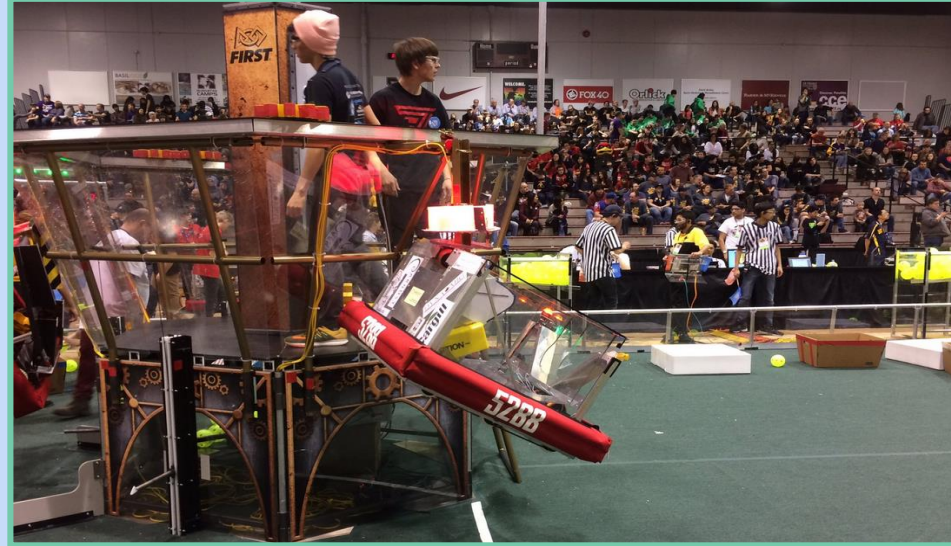
        {

            valueReadI = Integer.parseInt(valueReadS);
            total=total+1;
            if (valueReadI <= 45)
            {firsthalf= firsthalf + 1;}
            else
            {secondhalf=secondhalf + 1;}

        }
        }
        catch(IOException e)
        {System.out.println ("Sorry, file not found");}

        //OUTPUT YOUR DATA TO THE SCREEN

    }
}
```



# Our Classroom



# Our Classroom...

Large gaps in students achievement, prior knowledge, interest

Very project based, hands on, creative, innovative, extending assignments

A variety of technologies provide different contexts for curriculum  
(Raspberry Pi, Lego NXT, Arduino, FIRST Robotics, JAVA, Python, Bricx, HTML, CSS)

A number of students bringing their own laptops, phones, etc.

A number of students deciding “THIS IS WHAT I WANT TO DO WITH MY LIFE!”

Sometimes large gaps in student motivation...

Sometimes a group of introverted, quiet individuals...

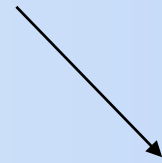
# Blended Learning

## Traditional Classroom

In a classroom  
Face-To-Face  
Bricks and Mortar

## Online Classroom

Uses a Virtual Learning Environment  
Teacher never meets students  
No “in class time”



## Blended Classroom

Uses a Virtual Learning Environment  
Teacher never meets students  
No class time

# Blended Learning - Acronyms

LMS – Learning Management System

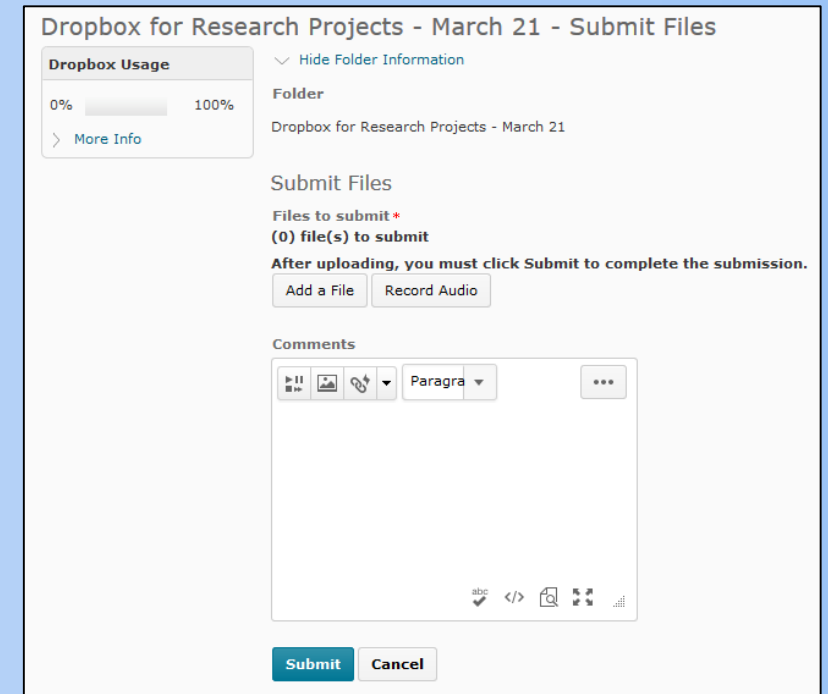
VLE – Virtual Learning Environment

Brightspace – a specific VLE created by D2L (Desire to Learn).  
Ministry provided, all Ontario Boards have access

# Blended Learning – Tools

## A Dropbox (assignment submission area)

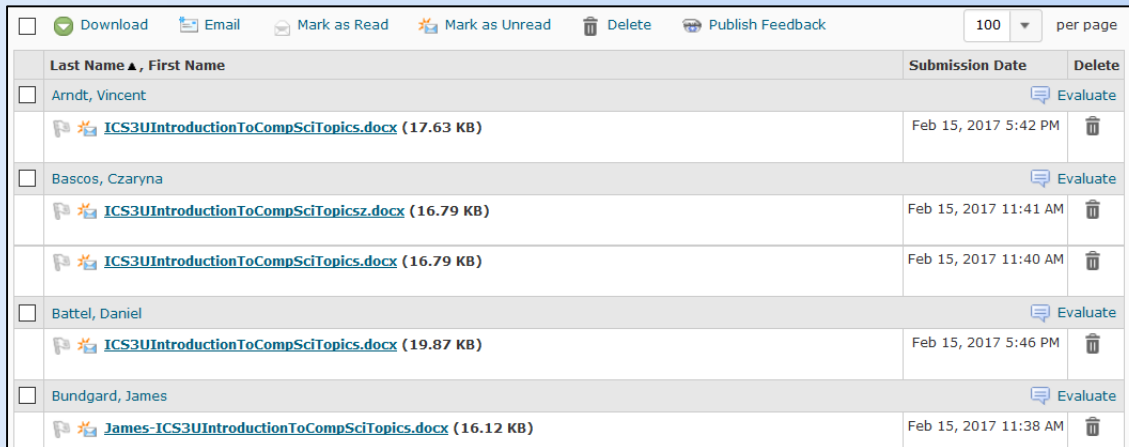
- Student name attached to submission
- Can submit a variety of file types
- Some VLEs allow for plagiarism checks (turnitin)
- Can be opened and closed at specific dates and times
- Date and time stamped



# Blended Learning – Tools

## A Dropbox (assignment submission area)

- No paper coming in
- All assignments in one place
- Accessible from anywhere
- Definitive closing time for assignments
- Definitive proof of submission (PT Interview....)



<input type="checkbox"/>	Download	Email	Mark as Read	Mark as Unread	Delete	Publish Feedback	100	per page
<input type="checkbox"/>	Last Name ▲, First Name		Submission Date	Delete				
<input type="checkbox"/>	Arndt, Vincent			Evaluate				
		ICS3UIntroductionToCompSciTopics.docx (17.63 KB)	Feb 15, 2017 5:42 PM					
<input type="checkbox"/>	Bascos, Czaryna			Evaluate				
		ICS3UIntroductionToCompSciTopicsz.docx (16.79 KB)	Feb 15, 2017 11:41 AM					
		ICS3UIntroductionToCompSciTopics.docx (16.79 KB)	Feb 15, 2017 11:40 AM					
<input type="checkbox"/>	Battel, Daniel			Evaluate				
		ICS3UIntroductionToCompSciTopics.docx (19.87 KB)	Feb 15, 2017 5:46 PM					
<input type="checkbox"/>	Bundgard, James			Evaluate				
		James-ICS3UIntroductionToCompSciTopics.docx (16.12 KB)	Feb 15, 2017 11:38 AM					

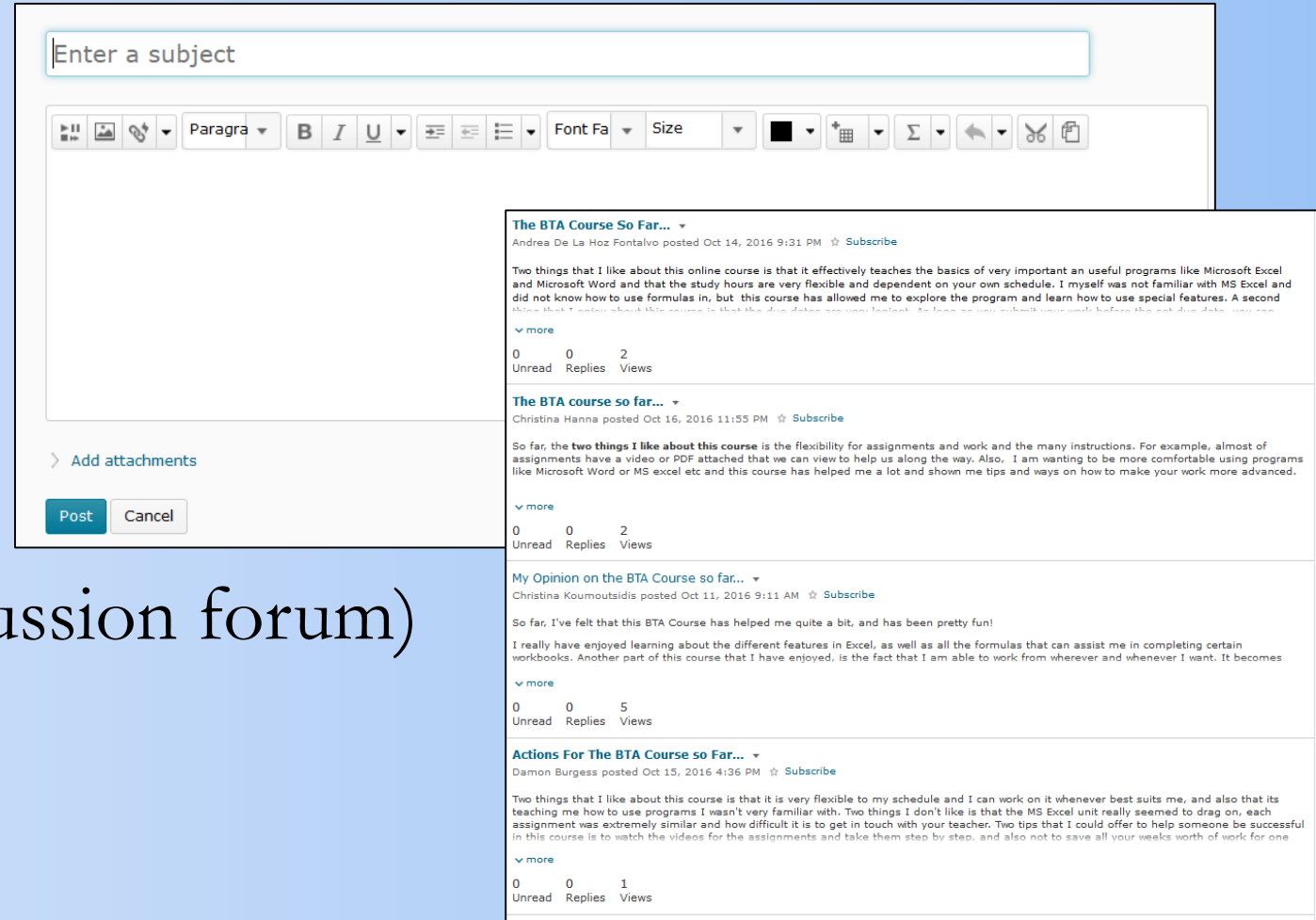
Email Users Without Submissions



# Blended Learning – Tools

- Student name attached to all posts
- Files can be attached
- Students can respond to each other
- Students can see each the attached files of others

A Discussion Area (online discussion forum)



The screenshot displays a discussion forum interface. At the top, there is a text input field labeled "Enter a subject". Below this is a rich text editor toolbar with various icons for text formatting (bold, italic, underline), alignment, font color, size, and background color. A "Paragra" dropdown menu is also visible. Below the toolbar is a large text area for writing the post. At the bottom of the form, there is a blue "Post" button and a "Cancel" button, along with a link for "Add attachments".

The forum displays three posts:

- The BTA Course So Far...** by Andrea De La Hoz Fontalvo, posted Oct 14, 2016 9:31 PM. The post text reads: "Two things that I like about this online course is that it effectively teaches the basics of very important an useful programs like Microsoft Excel and Microsoft Word and that the study hours are very flexible and dependent on your own schedule. I myself was not familiar with MS Excel and did not know how to use formulas in, but this course has allowed me to explore the program and learn how to use special features. A second..."
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- My Opinion on the BTA Course so far...** by Christina Koumoutsidis, posted Oct 11, 2016 9:11 AM. The post text reads: "So far, I've felt that this BTA Course has helped me quite a bit, and has been pretty fun! I really have enjoyed learning about the different features in Excel, as well as all the formulas that can assist me in completing certain workbooks. Another part of this course that I have enjoyed, is the fact that I am able to work from wherever and whenever I want. It becomes..."
- Actions For The BTA Course so Far...** by Damon Burgess, posted Oct 15, 2016 4:36 PM. The post text reads: "Two things that I like about this course is that it is very flexible to my schedule and I can work on it whenever best suits me, and also that its teaching me how to use programs I wasn't very familiar with. Two things I don't like is that the MS Excel unit really seemed to drag on, each assignment was extremely similar and how difficult it is to get in touch with your teacher. Two tips that I could offer to help someone be successful in this course is to watch the videos for the assignments and take them step by step, and also not to save all your weeks worth of work for one..."

# Blended Learning – Tools

- Collaboration
- Cross curricular content (Int. Bus.)
- More welcoming platform for sharing for some students

Enter a subject

Paragra B I U Font Fa Size

[Add attachments](#)

Post Cancel

**The BTA Course So Far...**  
Andrea De La Hoz Fontalvo posted Oct 14, 2016 9:31 PM [Subscribe](#)

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[more](#)

0 0 2  
Unread Replies Views

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[more](#)

0 0 2  
Unread Replies Views

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[more](#)

0 0 5  
Unread Replies Views

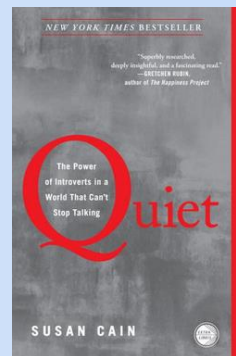
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[more](#)

0 0 1  
Unread Replies Views

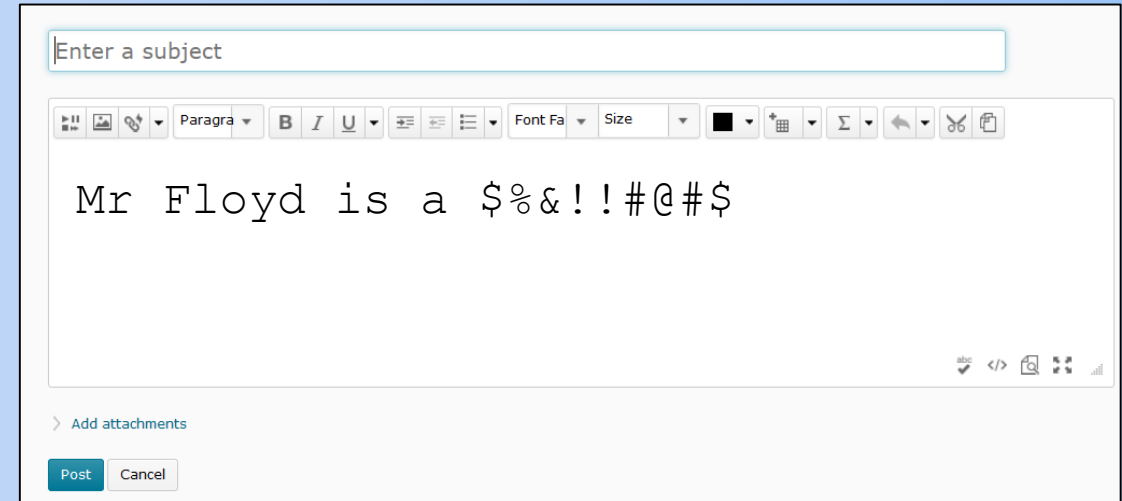
## A Discussion Area (online discussion forum)



# Blended Learning – Tools

But what about inappropriate posts?

- More accountability than traditional classroom
- Screen captures
- Valuable development of online skills and etiquette in a low risk, contained environment



The screenshot shows a rich text editor interface. At the top, there is a text input field labeled "Enter a subject". Below it is a toolbar with various icons for text formatting, including bold, italic, underline, and font color. The main text area contains the sentence "Mr Floyd is a \$%&!!#@#\$". At the bottom of the editor, there is a link that says "> Add attachments" and two buttons: "Post" and "Cancel".

# Blended Learning – Tools

- Auto Marking
- AUTO MARKING!!!!!!!
- Variety of question types
- Can be timed
- Multiple or single trials
- Opening and closing date and time
- Can randomize questions

## Quiz or Survey Tool

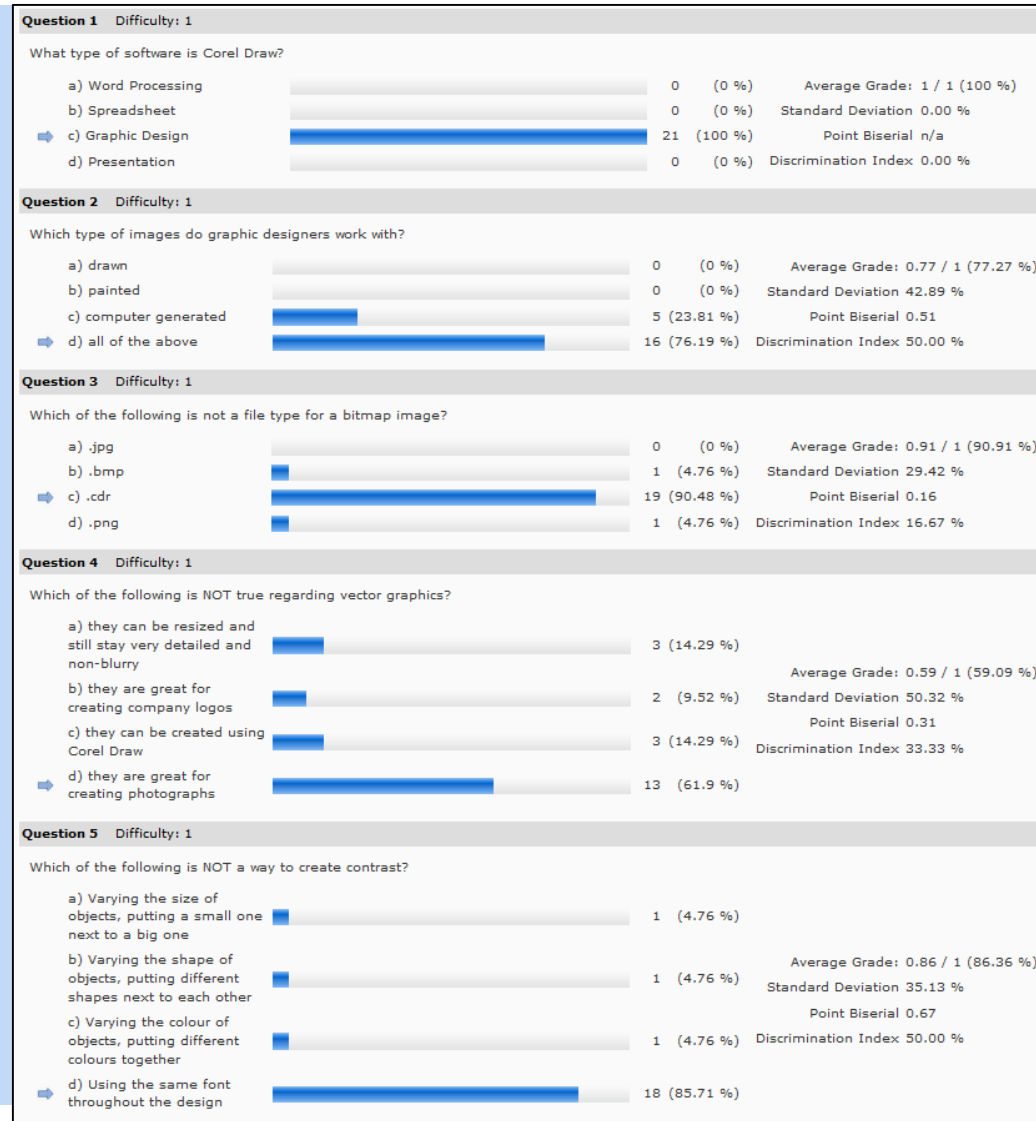
True or False Question (T/F)
Multiple Choice Question (MC)
Multi-Select Question (M-S)
Long Answer Question (LA)
Short Answer Question (SA)
Multi-Short Answer Question (MSA)
Fill in the Blanks Question (FIB)
Matching Question (MAT)
Ordering Question (ORD)
Arithmetic Question (2+2)
Significant Figures (x10)
Text Information (TXT)
Image Information (IMG)

Question	Difficulty	Question Text	Option	Count	Percentage	Average Grade	Standard Deviation	Point Biserial	Discrimination Index
Question 1	1	What type of software is Corel Draw?	a) Word Processing	0	0%	1 / 1 (100%)	0.00%	n/a	0.00%
			b) Spreadsheet	0	0%				
			c) Graphic Design	21	100%				
			d) Presentation	0	0%				
Question 2	1	Which type of images do graphic designers work with?	a) drawn	0	0%	0.77 / 1 (77.27%)	42.89%	0.51	50.00%
			b) painted	0	0%				
			c) computer generated	5	23.81%				
			d) all of the above	16	76.19%				
Question 3	1	Which of the following is not a file type for a bitmap image?	a) .jpg	0	0%	0.91 / 1 (90.91%)	29.42%	0.16	16.67%
			b) .bmp	1	4.76%				
			c) .cdr	19	90.48%				
			d) .png	1	4.76%				
Question 4	1	Which of the following is NOT true regarding vector graphics?	a) they can be resized and still stay very detailed and non-blurry	3	14.29%	0.59 / 1 (59.09%)	50.32%	0.31	33.33%
			b) they are great for creating company logos	2	9.52%				
			c) they can be created using Corel Draw	3	14.29%				
			d) they are great for creating photographs	13	61.9%				
Question 5	1	Which of the following is NOT a way to create contrast?	a) Varying the size of objects, putting a small one next to a big one	1	4.76%	0.86 / 1 (86.36%)	35.13%	0.67	50.00%
			b) Varying the shape of objects, putting different shapes next to each other	1	4.76%				
			c) Varying the colour of objects, putting different colours together	1	4.76%				
			d) Using the same font throughout the design	18	85.71%				

# Blended Learning – Tools

Quiz, Survey Tool  
My favourite part..

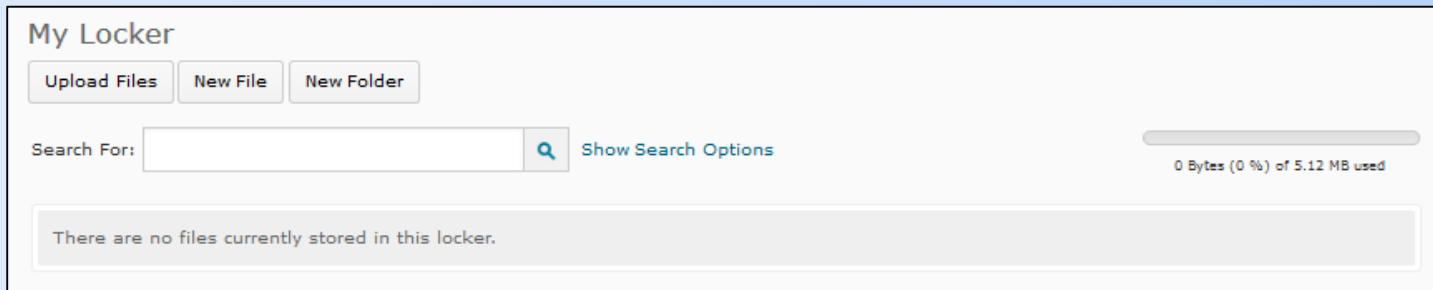
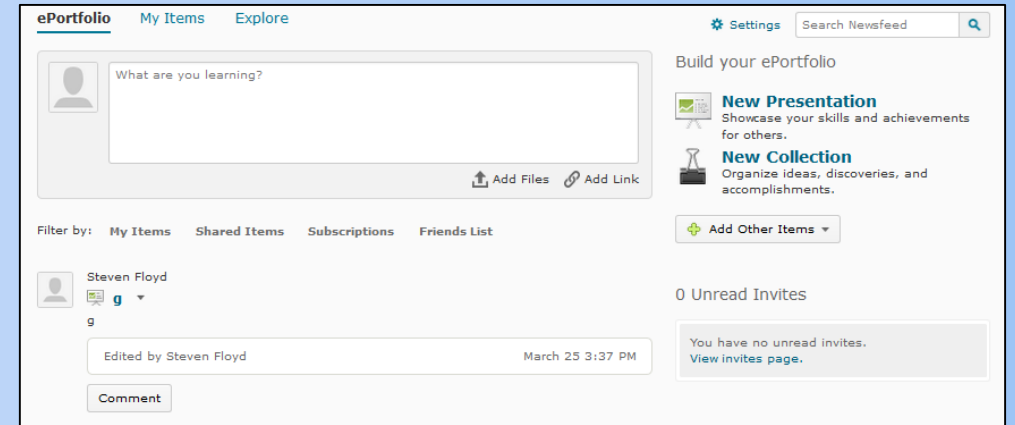
- AUTO MARKING!!!!!!!
- Data



# Blended Learning – Tools

## Locker, File Storage, ePortfolio

- Cloud storage for course files
- Ability to revisit/reuse past work
- Ability to showcase/combine work
- Ability to document learning, reflect, etc



# Blended Learning – Tools

## Content

- Can provide a variety of file types
- Can provide links to external documents
- Online textbook
- All course materials... one place...  
from syllabus to exam review

☰ Table of Contents	258
☰ Computer Hardware/Software	5
☰ Logic/Competition Problems	2
☰ Python Programming	2
☰ Links to Floyd's Youtube tutorials	3
☰ Online Resources	8
☰ Number Systems	5
☰ HTML-CSS-Javascript	
☰ Course Information	8
☰ Student Information	4
☰ ICS3C-C	221
☰ Unit 1	45
☰ Unit 2	48
☰ Unit 3	55
☰ Unit 4	61
☰ <b>Unit 5</b>	<b>12</b>

# Blended Learning – Tools

## Content - OERB

- A wide variety of courses, written in their entirety
- Can be imported into any course
- Can be used as a whole, in parts, etc.

The screenshot shows the OERB website interface. At the top, there is a navigation bar with the OERB logo and five main menu items: HOME, SIMPLE SEARCH, BROWSE BY CURRICULUM, ADVANCED SEARCH, and TELO COURSE UNITS. Below this, the 'BROWSE BY CURRICULUM' section is active. It features a search bar with filters for Language of Resource (English, All, EN, FR), Language of Curriculum (English), and a checkbox for 'TELO-Developed'. Below the search bar are three filter boxes: 'Results Per Page' set to 10, 'Curriculum Year' set to 2016-2017 (Current), and 'Type of Board' set to All. There is also a checkbox for 'Include retired'. A dropdown menu for 'Choose an expectation type to load browsing options' is set to 'Ontario Curriculum Expectations'. Another dropdown menu for 'Choose a grade to load the subjects' is currently empty. A 'Browse by grade' button is located at the bottom of the filter section.



# Blended Learning – Tools

## News

- Daily agenda for all students
- Can link to past work, other documents, content
- Can be set to publish at specific day/time

T-A-11 ▾

Apr 11, 2017 8:21 AM

-

Published

Nice job yesterday, almost everyone in the class ended up being able to read Strings from a datafile into a program. This will be HUGE for the rest of the course.

Today we are going to read integers from a data file and then read doubles from a data file.

Follow these instructions closely, it's very important that you get these done today in preparation for tomorrow and the rest of the year..

[Reading Integers from a Datafile](#)

[Reading Doubles from a Datafile](#)

# Blended Learning - Why



What they want to know

Me?

What they know

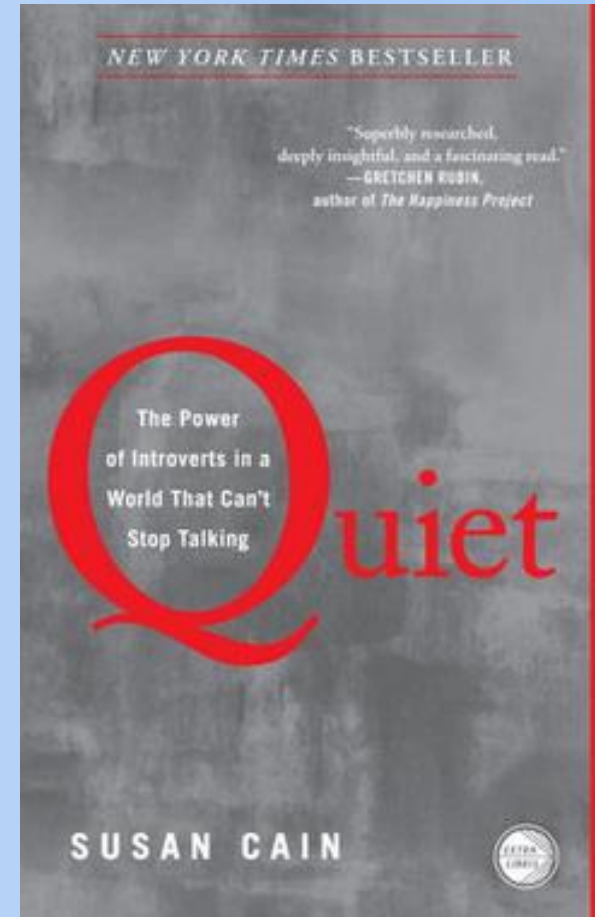
# Blended Learning - Why



# Blended Learning

## Differentiation

- Learning Styles
- Interests
- Areas of Focus
- Personalities



# Blended Learning

## Paper and \$\$\$

Title	Start Date	End Date	Status
<input type="checkbox"/> T-A-24 PROJECT	Apr 24, 2017 2:06 PM	-	Published



*I/O, I/O, it's off to work you go!*



Now that you have started to become familiar with using programming concepts including variables, loop, selection, arrays, sorting and IO... it is time to create your own program that uses Input and Output.

In this assignment, you will have the privilege (and responsibility) of creating a program of your choice. You should try to get your program to include the following:

- ✓ Read in information
- ✓ Display data to the screen
- ✓ Use existing data to create new data
- ✓ Alter or change some of the data
- ✓ Output data

Essentially you are creating a data base containing whatever information you wish.

You will have several days to complete this program.

If you can work with datafiles, that is great! If you want to work with keyboard input, that will work as well. The more complex, the better.

Some ideas include:

- A program that keeps track of the stock at a store
- A program that keeps track of statistics for a team or a league (league standings)
- A program that keeps track of usernames and passwords, with the ability to add new usernames and passwords
- A diet program with calorie counters (data file could store food names and calories)

	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
<b>Application</b> Loops, arrays, input output are all used effectively and with complexity	Loops, arrays, input output are all used with limited effectiveness and complexity	Loops, arrays, input output are all used with some effectiveness and complexity	Loops, arrays, input output are all used with considerable effectiveness and complexity	Loops, arrays, input output are all used with thorough effectiveness and complexity
<b>Application</b> Design and debugging of program completed with limited effectiveness and with complexity	Design and debugging of program completed with limited effectiveness and complexity	Design and debugging of program completed with some effectiveness and complexity	Design and debugging of program completed with considerable effectiveness and complexity	Design and debugging of program completed with thorough effectiveness and complexity
<b>Thinking/Inquiry</b> User interface is designed effectively and with complexity	User interface is designed with limited effectiveness and complexity	User interface is designed with some effectiveness and complexity	User interface is designed with considerable effectiveness and complexity	User interface is designed with thorough effectiveness and complexity
<b>Communication</b> Spacing, headers and comments allow for understanding of program	Spacing, headers and comments allow for limited understanding of program	Spacing, headers and comments allow for some understanding of program	Spacing, headers and comments allow for considerable understanding of program	Spacing, headers and comments allow for thorough understanding of program

# Blended Learning

## Absences

- Student (“What’d I miss?”, “Did we do anything yesterday?”)
- Teacher

**T-A-11** ▾ Apr 11, 2017 8:21 AM - Published

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[Reading Integers from a Datafile](#)

[Reading Doubles from a Datafile](#)

# Blended Learning

Flow, Routine to Daily Class time

- Students enter, log in, complete initial task...
- Efficient, productive, less time wasted...
- Students who are away can access materials, no wasted time on return

# Blended Learning

Helps meet specific demands of today's classrooms:

- Split grades, courses
- Differentiation
- Absences



# Blended Learning

Platform for flipped classroom

# Blended Learning

Student accountability  
Student responsibility

# Blended Learning

More doing

# Blended Learning

Flexible  
Responsive

# Blended Learning – Why This Topic...

The Chromebooks are coming!

## Thames Valley school board to test free Chromebooks for Grade 9 students at eight schools



By Hank Daniszewski, The London Free Press  
Monday, April 3, 2017 3:23:34 EDT PM



# Blended Learning – Why This Topic

What 21<sup>st</sup> century skills did you need to attend this conference?

Register online? Access website and agenda?

Social Media planning? Downloading slides?

Emailing, tweeting, messaging, presenters, colleagues?

Requesting time away?

What would be a good way to develop these skills in our students?

# Blended Learning – Why This Topic

This conference is blended!

Our careers are blended!!

Our life is blended!!!

A valuable and authentic way to embed  
21<sup>st</sup> century skills and competencies into every classroom