

Takeoff with Bite-Sized Videos: Recording, Captioning and Housing Helpful Videos for Students

Leslie Johnson, Assistant Chair & Kirsten K. Meymaris, Faculty
Department of Mathematics School of General Education





Agenda

1. Why? Micro-learning and Bite-Sized Learning
2. Record screencasts via free online software - Screencastify
3. House and close-caption with via YouTube for ADA compliance.
4. Use LiveBinder to organize and make accessible via your course

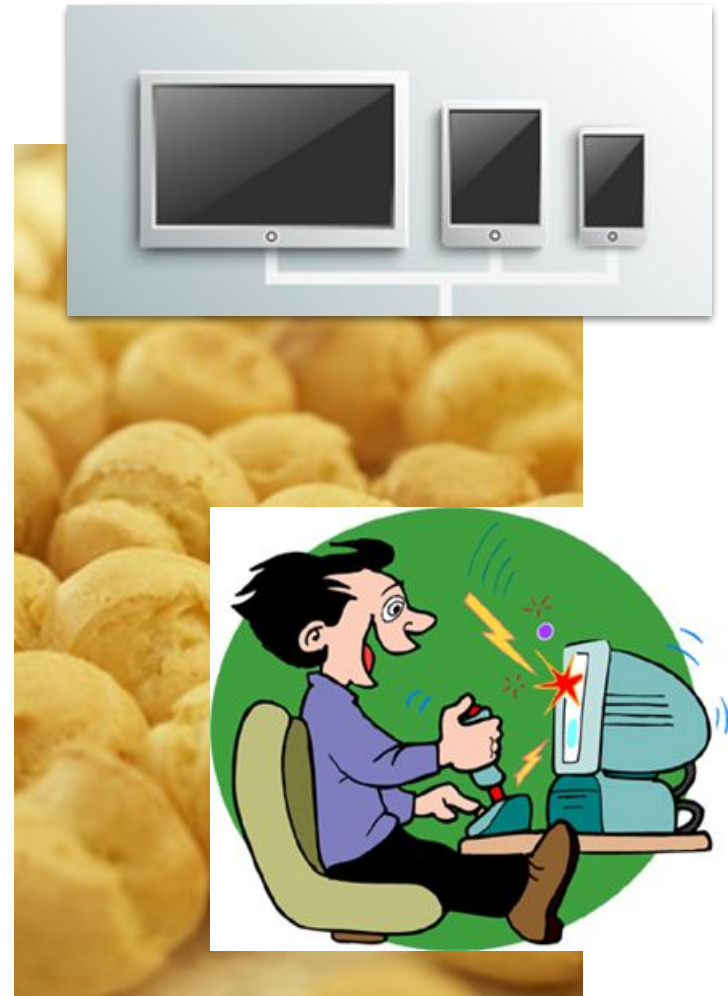


Agenda

1. Why? Micro-learning and Bite-Sized Learning
2. Record screencasts via free online software - Screencastify
3. House and close-caption with via YouTube for ADA compliance.
4. Use LiveBinder to organize and make accessible via your course

What is Micro-learning?

- Learning in small, “bite sized” chunks (Gutierrez, 2014)
- Covers only one or very few topics
- Spaced repetition
- Usually involves multimedia and gamification
- Typically under 10 minutes
- Mobile



Why Choose Micro-Learning?

- “Research has shown that we learn more (and retain it better) when we study in short focused bursts than when we’re forced to sit through hour long classes — but of course your younger self that was bored to tears at school knew that already.” (Andriotis, 2015)
- Can be completed during “dead time”
- Fun and engaging
- Often cheaper than the alternatives

Examples of Micro-learning

New Employee Training

- Domino's Pizza Maker Course via AllenComm helps employees learn the menu (3 micro-learning modules)



Ongoing Employee Training

- Uber Technologies Inc. – Duolingo to learn English better (Kolodny, 2013)

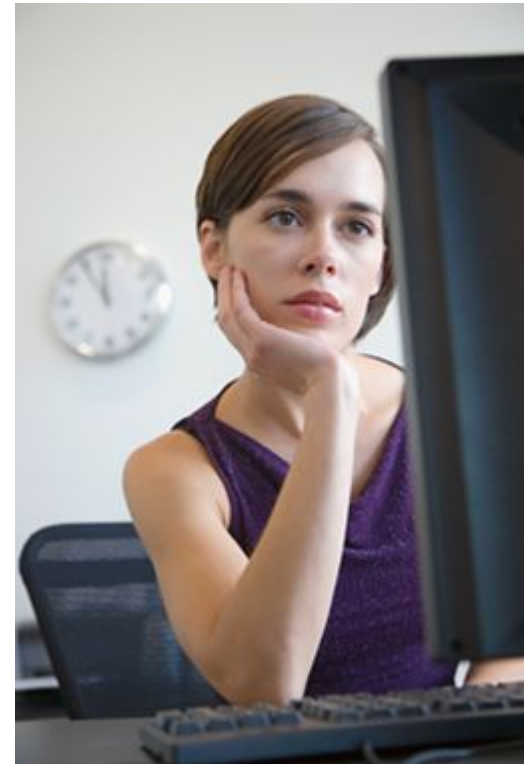
Examples of Micro-learning

- Young learners: BrainPOP
- All ages: Khan Academy
- All ages: TED Ed



Micro-learning is **Not**

- An hour long lecture
- Reading for a long stretch of time
- A video with no follow-up
- A long video (over 10 minutes)
- A video with too much “fluff”
- Stand alone curriculum
- Right for every kind of learning



Free Tools for Creating Micro-Learning

Videos

- Screencastomatic
- Screencastify
- YouTube

Quizzes & Polls

- PlayBuzz
- Poll Everywhere

Both

- PlayPosit



Bite-Sized Learning

- Targeted objective-based material (Soh, 2017)
- Picking one single topic, keeping it short
- 5 minutes or less
- Use attention grabbing strategies for millennials



General Process



Screencast Software Considerations

Things to look for:

- Interface
- Cost (Free)
- Mouse movement
- Picture-In-Picture
- Limitations to length and #
- Built-In editor - Audio/Video
- Export options (mp4, webm, avi)
- Support



CamStudio[™]
OPEN SOURCE



Screencastify



TinyTake
by MangoApps



Debut
Video Capture Software

SCREENCAST  MATIC

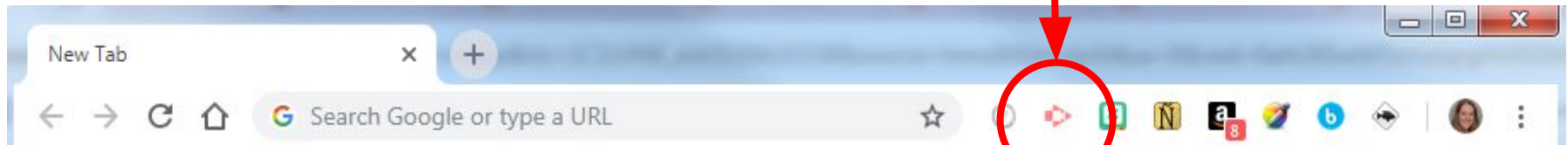


Screencastify: Chrome Extension

Google

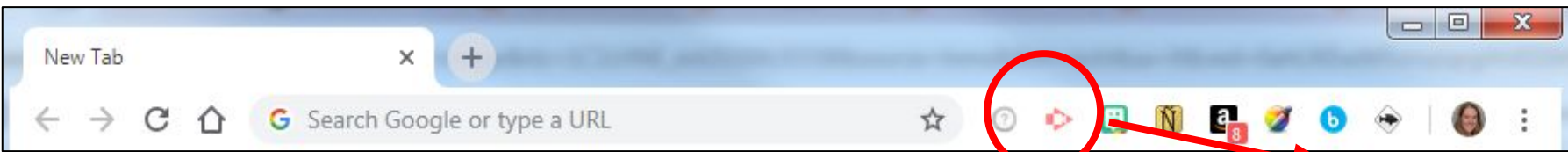


“Lightweight” screencast program integrated as an extension in (Google) Chrome browser.

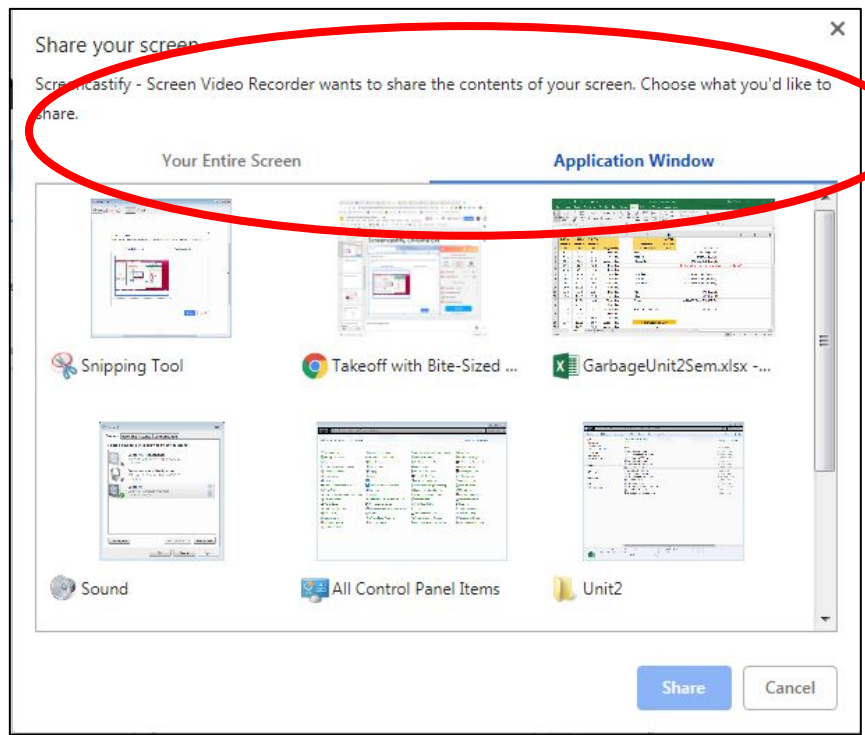
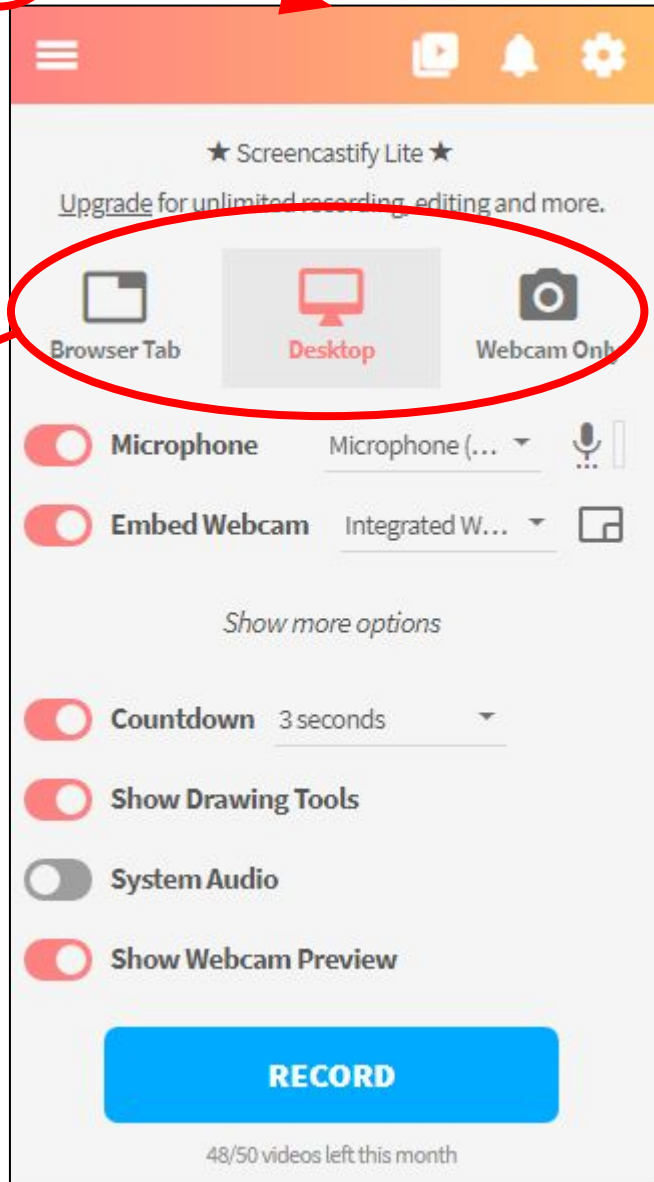


- Capture desktop, app, browser tab or webcam
- Picture-on-picture capability
- One-click upload to Youtube or Google Drive
- 10 min/video and up to 50 videos/month

<https://help.screencastify.com/category/131-initial-setup>



Browser, App, Webcam



Fun Tips/Tricks with Screencastify

<https://help.screencastify.com/category/157-tips-tricks>

List of all keyboard shortcuts

Shortcut	PC	Mac
Open the extension	Alt + Shift + S	Option + Shift + S
Start / stop recording	Alt + Shift + R	Option + Shift + R
Pause / resume recording	Alt + Shift + P	Option + Shift + P
Change recording focus to current tab	Alt + Shift + F	Option + Shift + F
Show / hide annotation toolbar	Alt + T	Option + T
Focus spotlight on mouse	Alt + F	Option + F
Highlight mouse clicks with red circle	Alt + K	Option + K
Pen tool	Alt + P	Option + P
Eraser	Alt + E	Option + E
Wipe screen clear	Alt + Z	Option + Z
Return to mouse cursor	Alt + M	Option + M
Hide mouse when not moving	Alt + H	Option + H
Toggle embedded webcam on/off*	Alt + W	Option + W
Show / hide recording timer	Alt + C	Option + C



Record a Video Chat

Takeoff with Bite-Sized Videos

File Edit View Insert Format Slide Arrange Tools Add-ons Help Last...

Document add-ons

- Lucidchart Diagrams for Slides
- Screencastify for Slides**
- Get add-ons...
- Manage add-ons...

My Screencastify Videos

Search...

Click a video to add it to your slide.

Screencastify - Saving

The screenshot displays a video player interface. At the top, an orange navigation bar contains a back arrow, the text "Homepage - MM150 Survey ...", and icons for download, share, crop, cut, and delete. The video content shows a screen recording of a course page with a "powered by Screencastify" logo and navigation tabs for "Announcements", "Quizzes", "Grades", "More Tools", and "More". An announcement titled "When are my assignments graded?" is visible, dated Feb 6, 2019. A sidebar on the right shows "My Surveys", "Updates" (138 Unread Discussion Posts), and a "Calendar" for Thursday, February 7, 2019. The video player controls at the bottom include play/pause, volume, and a close button.

Comments [Learn more](#)

Comments appear next to your videos when you play them on Google Drive.

Allow others to comment

NEW COMMENT

Uploaded To

Google Drive

COPY LINK VIEW ON DRIVE

Video Details

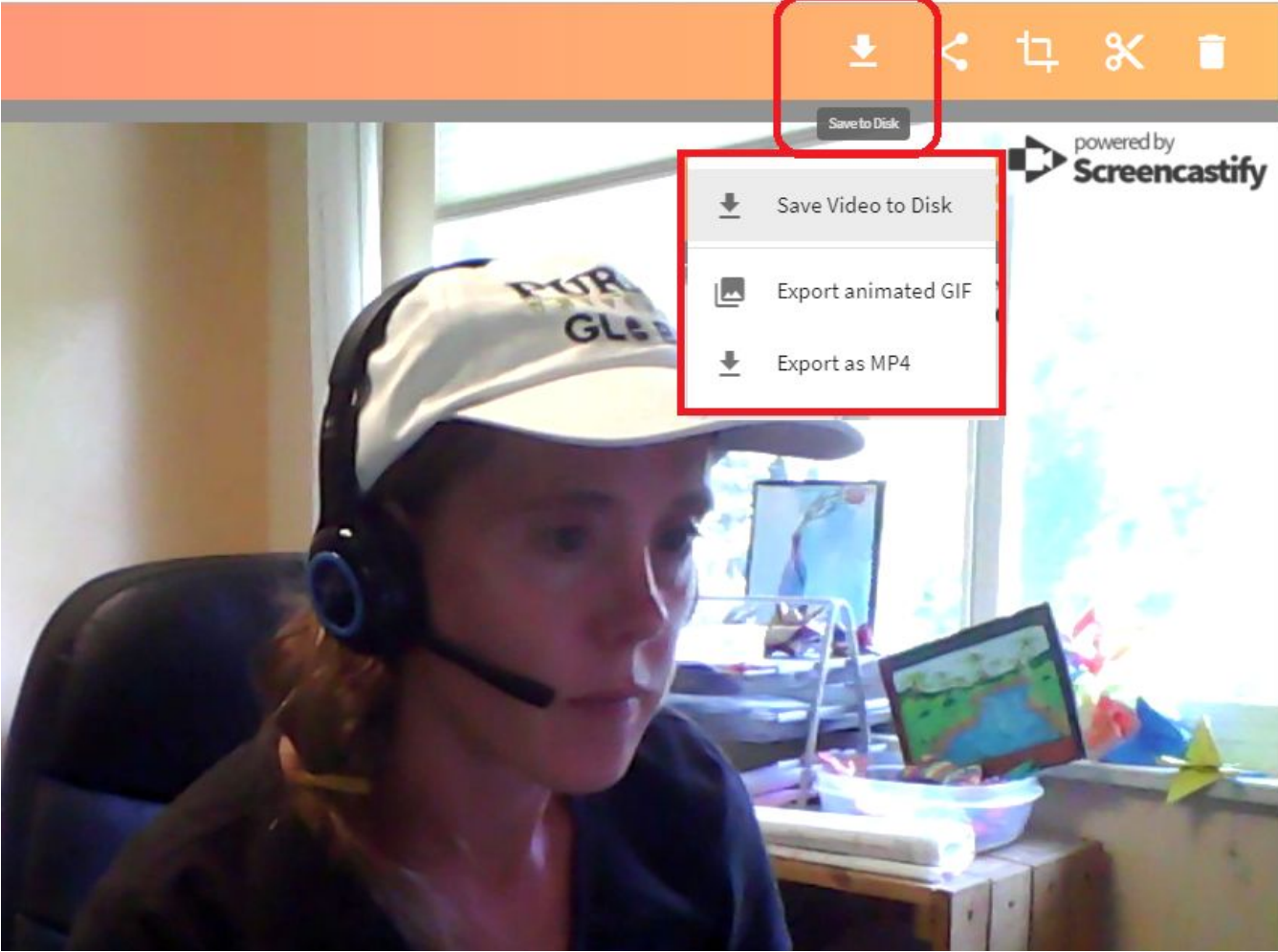
07:11

1680x858

Feb 7, 2019 1:32 PM

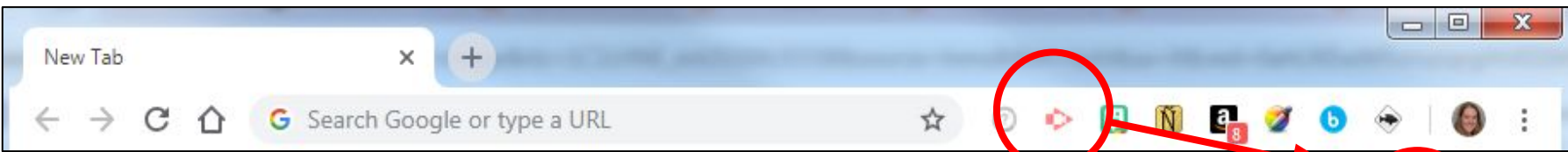
21.9 MB

Screencastify - Downloading as .webm file

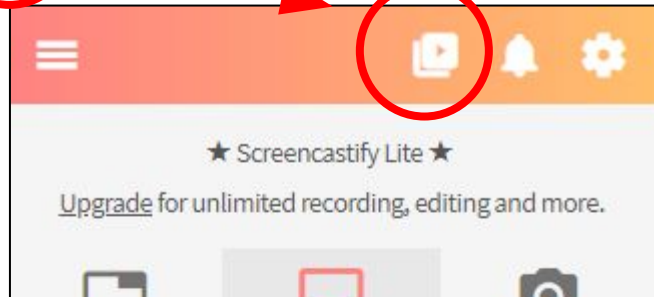


The screenshot displays the Screencastify interface. At the top, there is an orange toolbar with several icons. A red box highlights the download icon (a downward arrow), which has a 'Save to Disk' tooltip above it. Below the toolbar, a dropdown menu is open, also highlighted with a red box. The menu contains three options: 'Save Video to Disk' (with a download icon), 'Export animated GIF' (with a GIF icon), and 'Export as MP4' (with a download icon). The background video shows a person wearing a headset and a white cap with 'FOR GLOBE' visible. To the right of the video player, there is a sidebar with the following sections:

- Comments** [Learn more](#)
Comments appear next to your videos when you play them on Google Drive.
 Allow others to comment
NEW COMMENT
- Uploaded To**
Google Drive
COPY LINK VIEW ON DRIVE
- Video Details**
00:00
1280x720
Aug 20, 2018 2:05 PM
1.2 MB



My Recordings



My Recordings

Thumbnail	Thumbnail	Thumbnail	Thumbnail	Thumbnail	Thumbnail
Homepage - MM150 Survey of Mat... 07:11, 21.9 MB	Feb 7, 2019 12:54 PM - Screencastify 00:26, 235.7 KB	Feb 7, 2019 12:54 PM 00:04, 3.6 MB	Feb 7, 2019 12:50 PM 00:03, 316.5 KB	Feb 7, 2019 12:50 PM 00:05, 329.3 KB	Feb 7, 2019 12:48 PM 00:10, 661.7 KB
Feb 7, 2019 12:45 PM 00:23, 1.2 MB	Oct 18, 2018 9:05 PM 02:00, 8.3 MB	Oct 11, 2018 1:52 PM 07:12, 23.5 MB	Oct 11, 2018 1:44 PM 00:42, 1.0 MB	Oct 11, 2018 1:42 PM 00:00, 2.4 MB	Aug 20, 2018 6:41 PM 07:48, 24.1 MB
Gradebook Summary Aug 20, 2018 2:19 PM 09:59, 27.1 MB	My Recordings Aug 20, 2018 2:08 PM 00:05, 232.7 KB	Aug 20, 2018 2:05 PM 00:00, 1.2 MB	Aug 14, 2018 8:07 AM 00:50, 10.5 MB	POPULATION OF PENNY AGES Jul 4, 2018 6:38 PM 05:58, 27.5 MB	Jun 22, 2018 6:38 PM 04:06, 17.4 MB

Screencastify - Sharing

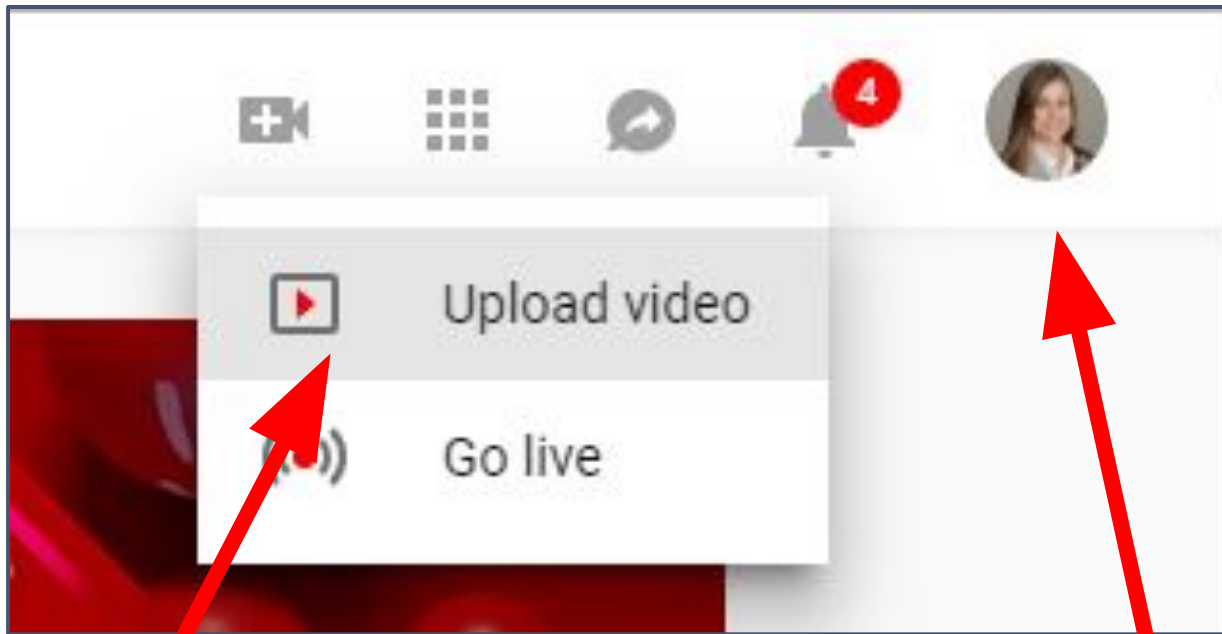
The image shows a screen recording of a web browser. At the top, a red navigation bar contains a back arrow, the text "Homepage - MM150 Survey ...", a download icon, a share icon (circled in red), and a link icon. A red arrow points from the share icon to a "Share Recording" dialog box on the right. The dialog box has a title "Share Recording" and the following options:

- Share on: Google Drive Youtube
- Channel: KMeymaris@purdueglobal.edu
- Shareable Link: GET LINK
- Privacy:
 - Public
Anyone can find and view the video.
 - Unlisted
People who have the link to the video can view it.
 - Private
Only you can view the video.

The background of the screen recording shows a course page with an announcement titled "When are my assignments graded?". The announcement text reads: "Hello Students! I've received a few emails about grades and thought I better explain it to you all so that noone is wondering how it works! I typically will finish up my grading by Fridays following the Unit end. It is PG policy that grades ...". The video player controls at the bottom show a timestamp of "Feb 7, 2019 1:32 PM" and a file size of "21.9 MB".



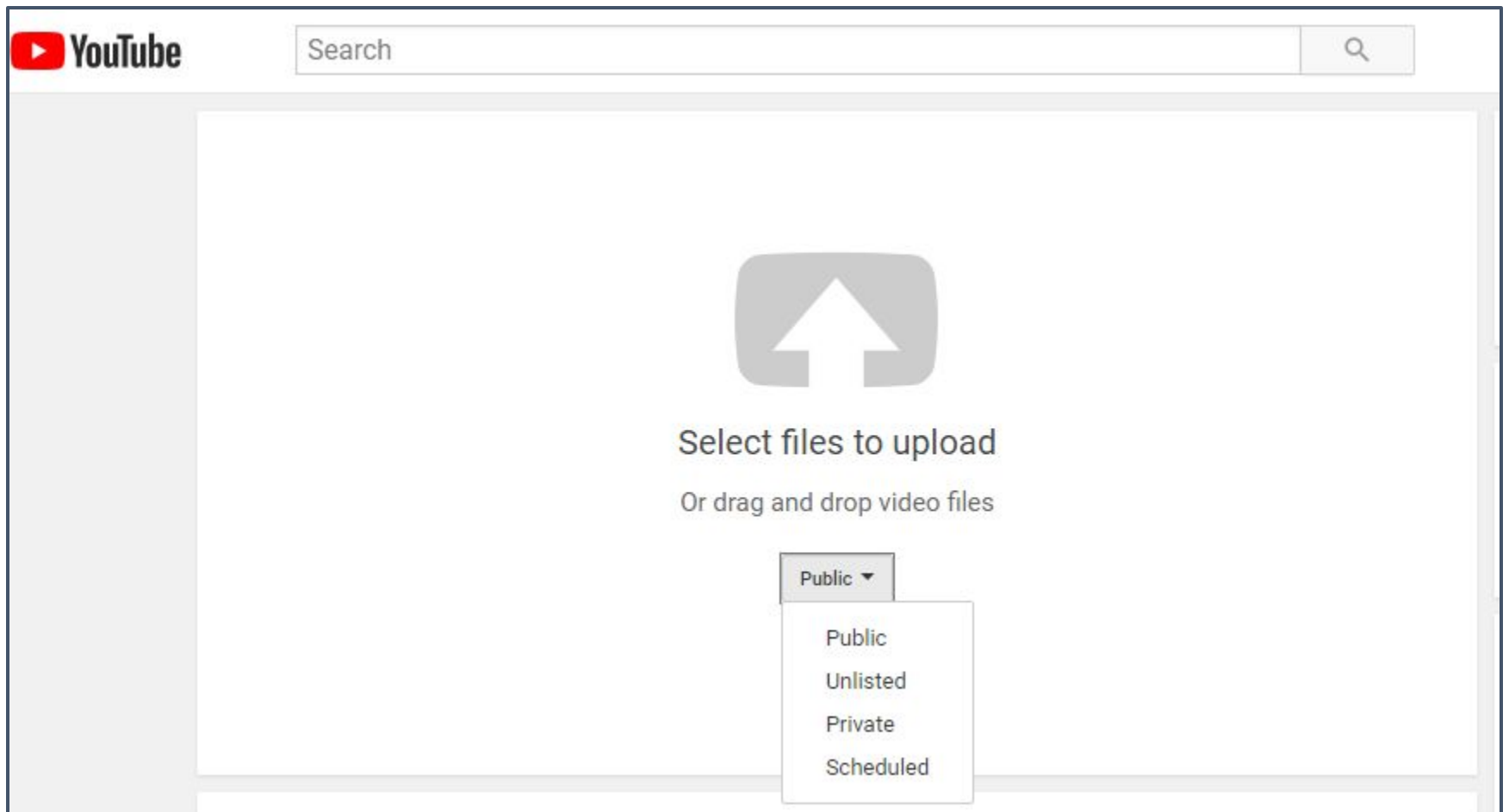
YouTube upload/cc/housing



Click here to get started!

Using the right account?

YouTube upload/cc/housing



YouTube upload/cc/housing

PROCESSING 95%

Click "Publish" to make your video live. Some changes are not yet saved.

Basic info Translations Advanced settings

My Kitten

Description

Tags (e.g., albert einstein, flying pig, mashup)

MM212 Videos

MM305 Videos

MM250 Videos

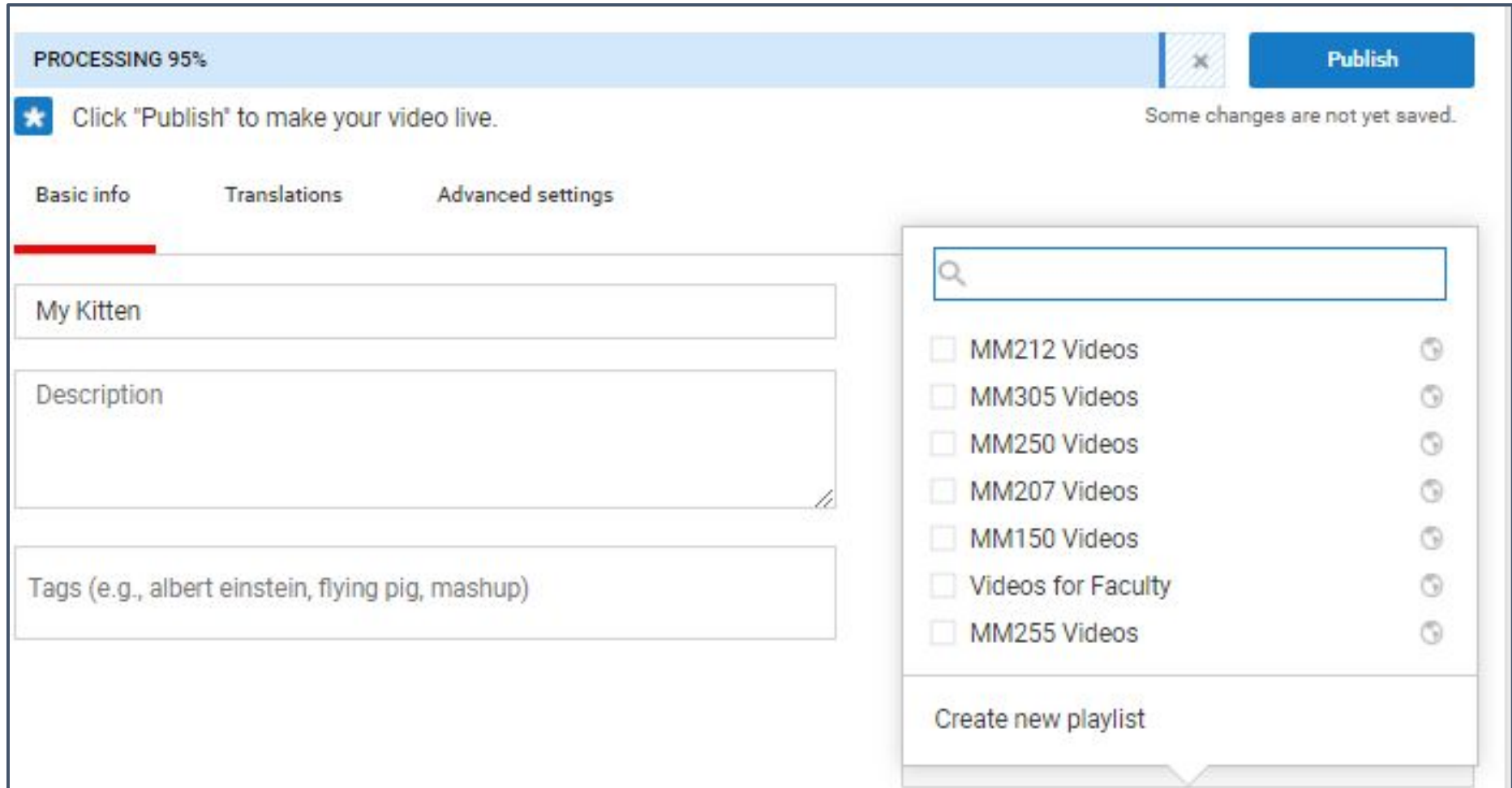
MM207 Videos

MM150 Videos

Videos for Faculty

MM255 Videos

Create new playlist

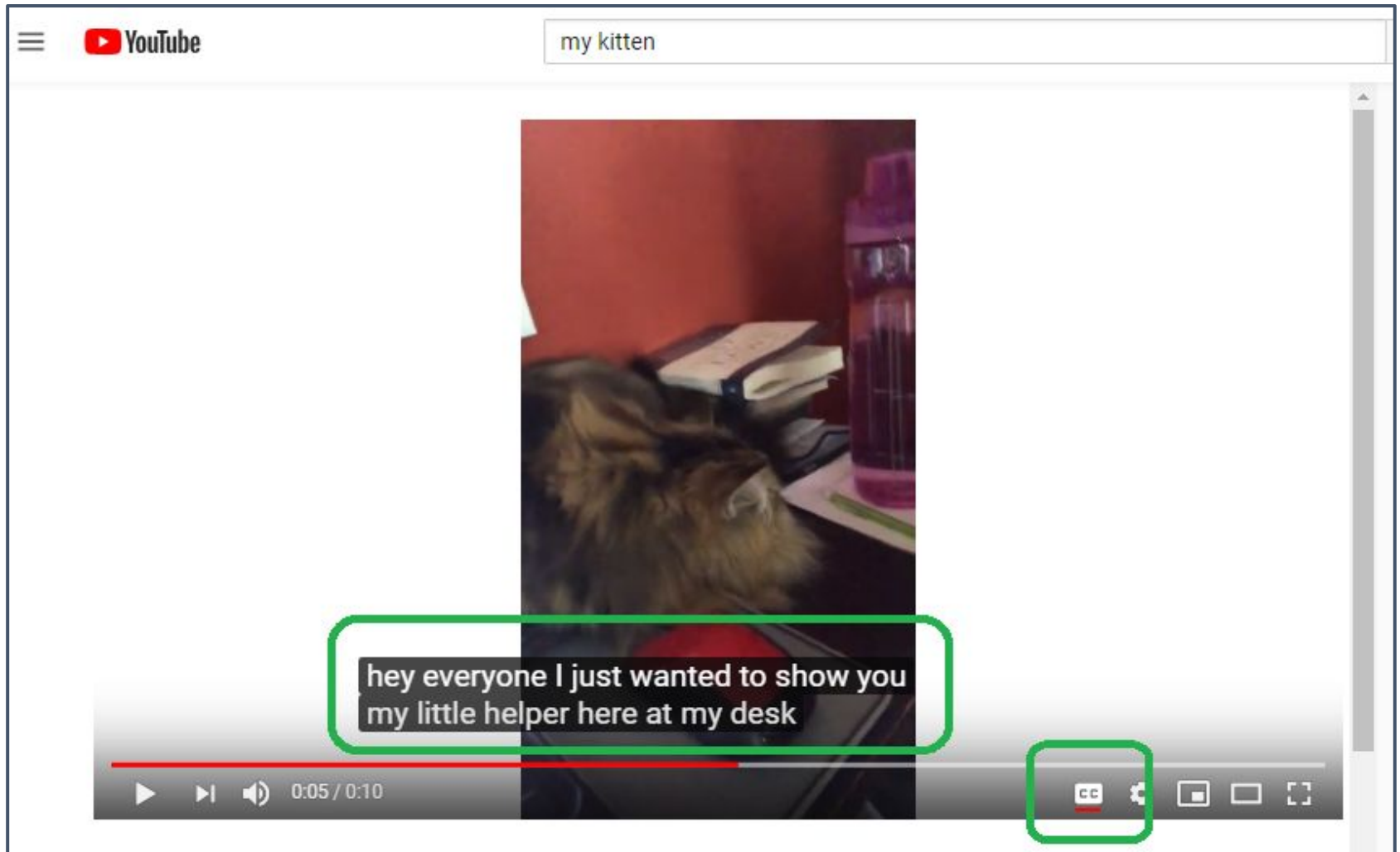
The image shows a screenshot of the YouTube upload interface. At the top, a blue progress bar indicates 'PROCESSING 95%'. To the right of the progress bar is a close button (an 'x' in a square) and a blue 'Publish' button. Below the progress bar, a message with a star icon says 'Click "Publish" to make your video live.' and a note on the right says 'Some changes are not yet saved.' There are three tabs: 'Basic info' (which is selected and has a red underline), 'Translations', and 'Advanced settings'. Under the 'Basic info' tab, there are three input fields: 'My Kitten' (the video title), 'Description', and 'Tags (e.g., albert einstein, flying pig, mashup)'. On the right side, a dropdown menu is open, showing a search bar at the top and a list of playlist options, each with a checkbox and a circular refresh icon: 'MM212 Videos', 'MM305 Videos', 'MM250 Videos', 'MM207 Videos', 'MM150 Videos', 'Videos for Faculty', and 'MM255 Videos'. At the bottom of the dropdown menu is a 'Create new playlist' button.

YouTube upload/cc/housing

The screenshot shows the YouTube Studio interface for editing a video titled "My Kitten". The top navigation bar includes the YouTube logo, the word "Studio" with a "beta" tag, a back arrow, the video title "My Kitten", and a menu icon. On the left, there is a video player showing a kitten on a desk with a red mouse, and a duration of 0:11. Below the player is a sidebar with "Video" selected, and options for "Details" (with a red pencil icon) and "Analytics" (with a bar chart icon). The main content area is divided into "Basic" and "Advanced" tabs, with "Advanced" selected. Under the "Advanced" tab, the "Video language" is set to "English". Below this, there is a link to "transcriptions" and a section for "Subtitles and CC for original video language" with a help icon. A dropdown menu shows "English by YouTube (automatic)" with a three-dot menu icon. At the bottom of the settings area, there is a blue button labeled "UPLOAD SUBTITLES/CC".

https://www.youtube.com/edit?ar=2&o=U&video_id=YsU6jPwmPfM

YouTube upload/cc/housing



LiveBinders

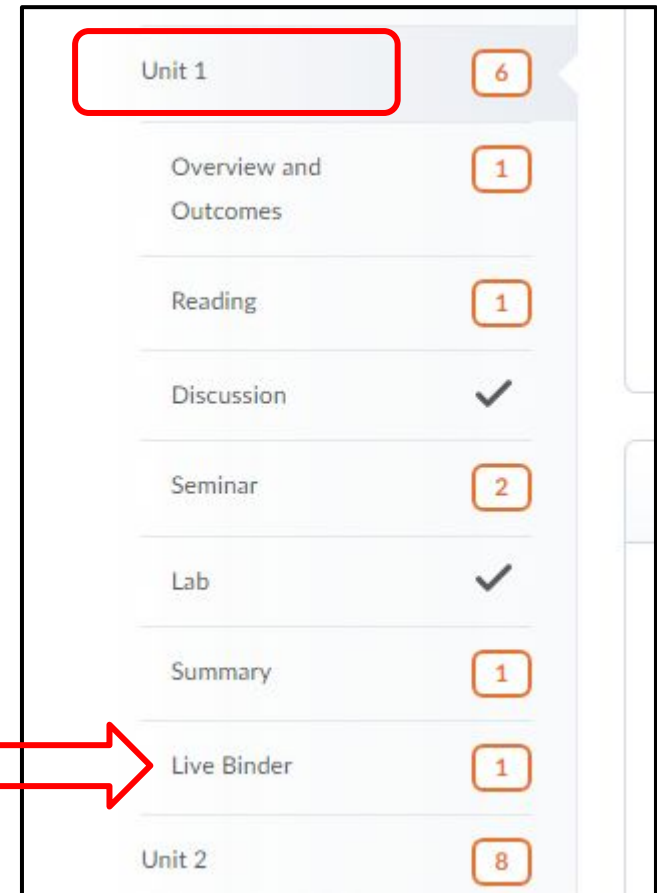
- Virtual 3-ring binder
- Stores and/or embeds videos, documents, etc.
- Shelves for classes
- Individual binders for units/modules



Sharing/Disseminating the Videos

Simplest way to share these with students

- access within course
- embedded
- fewest clicks
- static link (updates made in real time)
- mobile viewing
- updates made outside of course shell



LiveBinder Example

2018-05 PG - MM305 Shelf

Sort by: Most Recent ▾



Prev 1 to 10 of 10 Next



2018-05 MM305 Unit 10

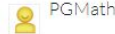


PGMath

Useful: 0 Views: 932



2018-05 MM305 Unit 8



PGMath

Useful: 0 Views: 1051



2018-05 MM305 Unit 4



PGMath

Useful: 0 Views: 1960



2018-05 MM305 Unit 9



PGMath

Useful: 0 Views: 1098



2018-05 MM305 Unit 1



PGMath

Useful: 0 Views: 1863



2018-05 MM305 Unit 2



PGMath

Useful: 0 Views: 1749



2018-05 MM305 Unit 7



PGMath

Useful: 0 Views: 849



2018-05 MM305 Unit 6



PGMath

Useful: 0 Views: 1495



2018-05 MM305 Unit 5



PGMath

Useful: 0 Views: 1079




2018-05 MM305 Unit 3




PGMath

Useful: 0 Views: 1189

LiveBinder Example

OptionsSign Up Log In



2018-05 MM305 Unit 1

By: PGMath

Table of ContentsWhat to Expect in MM305Introduction to ExcelDiscussion Board Videos^

Instructions for Installing Data Analysis ToolpackInstalling Data AnalysisUsing Descriptive StatisticsLevels of Measurement


VarianceCreating a HistogramCreate a Box and Whisker PlotCopy Data to Excel from Hawkes

Transposing Data in rows to columnsPG Math Center - Tutoring and other resourcesMath Resource Library


PG Math Center TourMath Type in Discussion Boards

2018-05 MM305 Unit 1

2018-05
MM305 Unit 1



Details



PGMath

Views: 1863

Table of Contents

What to Expect in MM305

Introduction to Excel

Discussion Board Videos

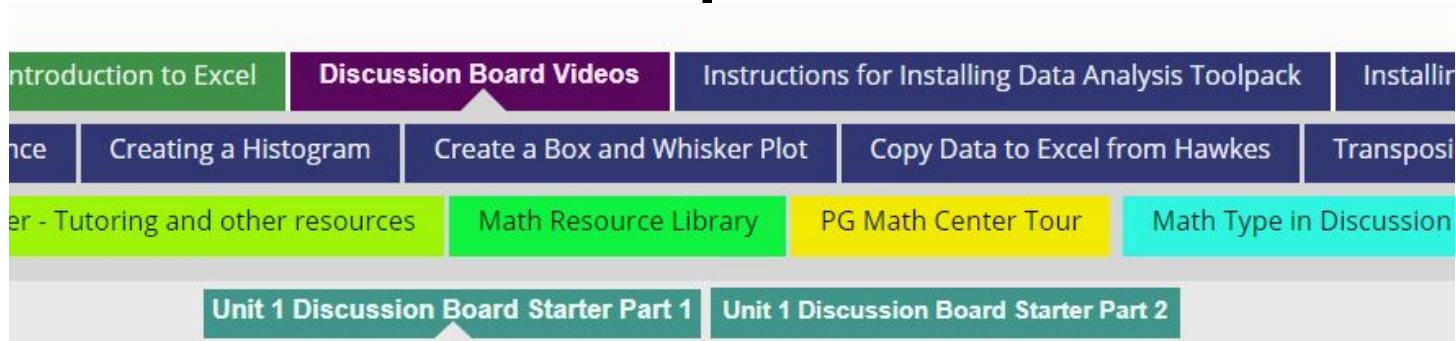
- Unit 1 Discussion Board Starter Part 1
- Unit 1 Discussion Board Starter Part 2

Instructions for Installing Data Analysis Toolpack

Installing Data Analysis

Using Descriptive Statistics

LiveBinder Example



<https://youtu.be/tRVVBo7IAf4>

A screenshot of a YouTube video player. The video title is 'Unit 1 DB Starter Part 1'. The video content shows an Excel spreadsheet with a data table. The table has columns for 'Name', 'Manufacturer', 'Type', 'Calories', 'Fats', 'Protein', 'Fib', 'Sugars', 'Price', and 'Carbohydr'. The 'Calories' column is highlighted in yellow. A text overlay on the video reads: 'all the way to a hundred and sixty calories now you have your bin set up to'. The video player interface includes a play button, a progress bar at 4:31 / 4:48, and a 'Share' button.

	Name	Manufacturer	Type	Calories	Fats	Protein	Fib	Sugars	Price	Carbohydr
1	Sheet									
2	Top	all-bran_wtth_sata_fiber	K	50	64	4	0	140	80	
3	Top	Puffed_Rice	Q	50	72	1	0	0	0	
4	Top	Puffed_wheat	Q	50	83	2	0	0	0	
5	Top	3X%_bran	N	50	94	5	3	180	90	
6	Top	All-Bran	N	70	126	4	3	260	9	
7	Bottom	Shredded_wheat	N	80	118	2	0	0	0	
8	Bottom	bran_cheer	P	80	123	2	3	200	0	
9	Top	bran_flakes	P	90	138	3	0	210	5	
10	Top	Nutri-grain_wheat	K	90	150	3	0	170	0	
11	Top	Raisin_Syrup	K	90	160	2	0	0	0	
12	Bottom	Shredded_wheat_w/bran	N	90	160	3	0	0	0	
13	Bottom	Shredded_wheat_Lapostolize	N	90	2	0	0	0	0	
14	Middle	Shredded_wheat_w/raisins	N	90	2	0	0	13	5	
15	Bottom	Corn_Flakes	K	100	2	0	0	200	1	
16	Middle	Cream_of_wheat_Libbys	N	100	3	0	0	100	1	
17	Top	Only_Wheat_&_ Raisins	Q	100	2	3	1	140	2	
18	Top	Double_Cheer	K	100	2	0	0	190	1	
19	Middle	Frosted_Mini-Wheats	K	100	2	0	0	0	0	
20	Bottom	Golden_Crisp	P	100	2	0	0	45	0	
21	Top	Large_Nuts_flakes	P	100	6	3	1	180	0	
22	Middle	Life	Q	100	4	2	1	150	2	
23	Middle	Maypo	A	100	4	1	0	0	0	
24	Bottom	Multi-grain_3-brooks	N	100	2	0	0	200	2	
25	Top							200	1	
26	Top							135	2	
27	Top							2.7	3.5	
28	Top							3	2	
29	Bottom	Wheat_Cheer	P	100	3	1	2	200	3	
30	Bottom	Wheaties	Q	100	3	1	0	200	3	
31	Top	Almond_Delight	Q	100	2	2	2	200	1	
32	Bottom	Apple_Cinnamon_Cheerios	G	100	2	2	1	180	1.5	

Tips for Best Practices for Bite-Sized Videos



- Objective based = content specific (share research)
- Evergreen as much as possible – no dates, no specific times, no reference to people, no reference to place in course (week or unit), no mention of textbook or page numbers
- Less than 5 minutes preferable
- Write a script first = about one page is about 5 minutes recorded.
- From start to finish, 1 hour for 5 minute finished product
- PPT should be prepared or screen setup – something for students to look at
- Show face in corner of recording if possible

What topics/concepts to cover?

- Challenging concepts
- More examples
- Formative assessment – on-demand videos
- Introduction - community building
- How-To videos



References

Andriotis, N. (2015, September 01). Everything you wanted to know about micro-learning [Web log post]. Retrieved from <http://www.efrontlearning.net/blog/2015/09/everything-you-wanted-to-know-about-micro-learning-but-were-afraid-to-ask.html>

Gutierrez, K. (2014, April 15). The Age of Bite-sized Learning: What is It and Why It Works [Web log post]. Retrieved from <http://info.shiftelearning.com/blog/bid/342367/The-Age-of-Bite-sized-Learning-What-is-It-and-Why-It-Works>

Kolodny, Lora. (2013, March 13). "The Latest Approach to Employee Training." *WSJ*. Retrieved from <http://www.wsj.com/articles/the-latest-approach-to-employee-training-1457921560>

Soh, Y. (2015). *Bite-Sized Learning Vs. Microlearning: Are They One And The Same?* Retrieved on Aug. 17, 2018 from <https://elearningindustry.com/bite-sized-learning-vs-micro-learning-are-same>

van der Meer, J., Berg, D., Smith, J., Gunn, A., & Anakin, M. (2015). *Shorter Is Better: Findings of a Bite-Size Mobile Learning' Pilot Project*. *Creative Education*, 6, 273-282. <http://dx.doi.org/10.4236/ce.2015.63026>