

Collaboration Team

Andrii Sagaidak Royden Luckey Sam San Nicolas

Trevor Shibley

Many students have questions in class.



Not all students ask their questions in class.



Instructors don't know if students have questions.







Students don't remember every topic to study.



Students don't remember every topic to study.



Students don't remember every topic to study.



- Many students have questions in class.
- Not all students ask their questions in class.
- Instructors don't know if students have questions.
- Students don't remember every topic to study.

The Tasks

Community Driven Questions

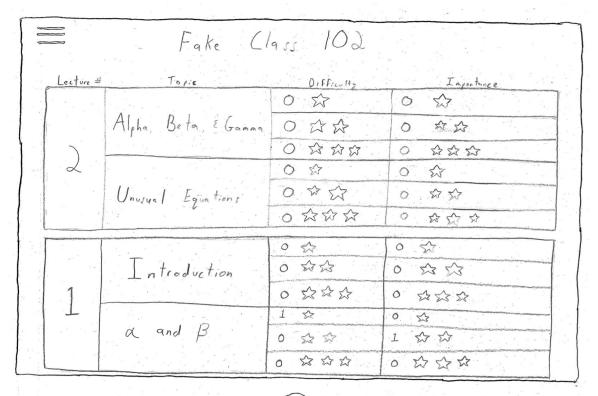
Data Driven Study Planning

Initial Paper Prototype - Home Screen

Your Classes

Fake Class 10d

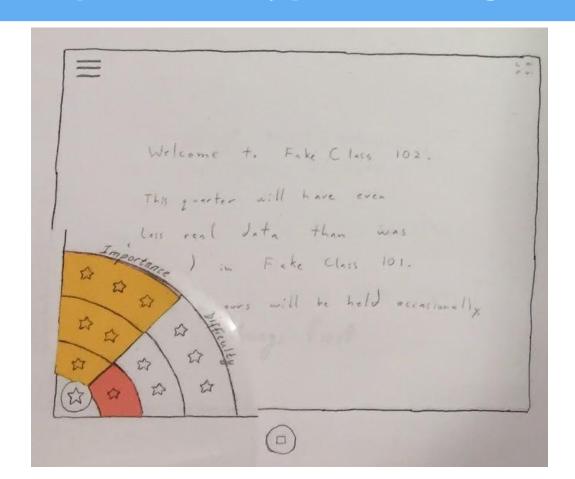
Initial Paper Prototype - Lecture List



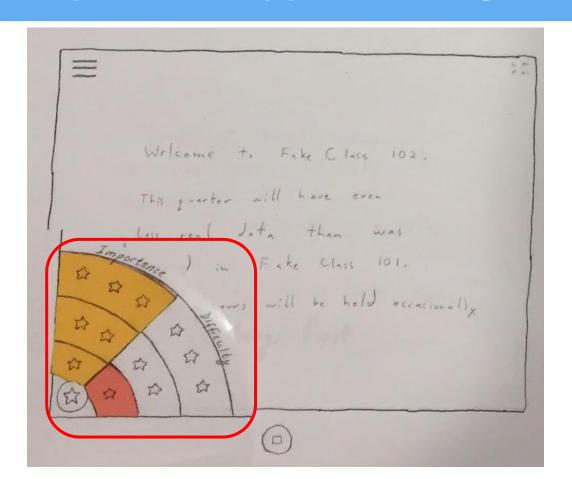
Initial Paper Prototype - Lecture Topics

		And the second of the party of the second of	
	ecture 2		
Slide Topic	T + 1 1. PP. 1	1. # of. 11.1.1.	12-
	Importance Difficult	y tourstions Notes/ a	uest/ons
1 Alpha, Beta, d.			
2 Alphe, Bete, d.			
4 unusual Equa.			
			11

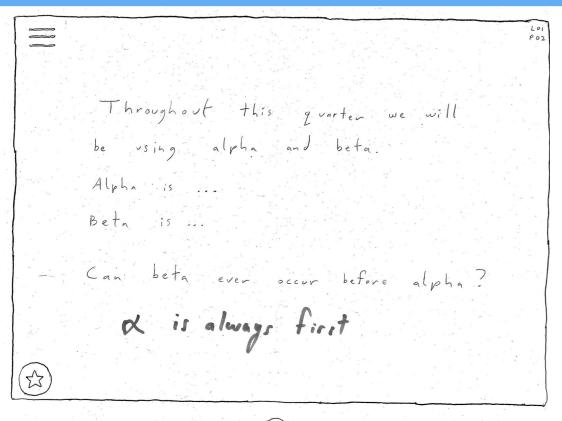
Initial Paper Prototype - Rating Screen



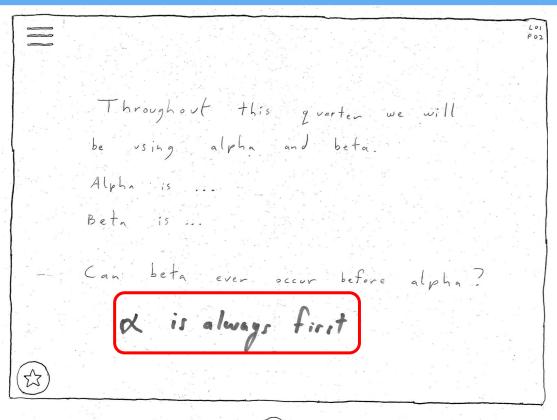
Initial Paper Prototype - Rating Screen



Initial Paper Prototype - Notes/Questions



Initial Paper Prototype - Notes/Questions



Initial Paper Prototype - Help Screen

How To Use Studya. · Take notes directly on the slide. . When you have a question, add a "??" to the end of the note. What is x?? > Common greations will be automatically sent to the instructor. · Use the "D" in the bottom left corner to rate the slide to aid with studying in the future.

← FC 102

1 Home

? Help

Initial Paper Prototype - Help Screen

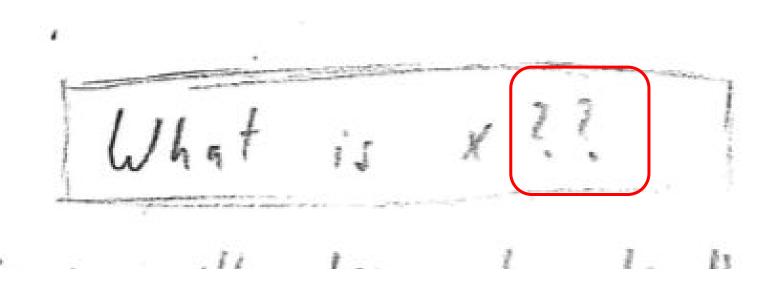
How To Use Studya. · Take notes directly on the slide. . When you have a question, add a "??" to the end of the note. What is x ?? > Common greations will be automatically sent to the instructor. · Use the "D" in the bottom left corner to rate the slide to aid with studying in the future.

← FC 102

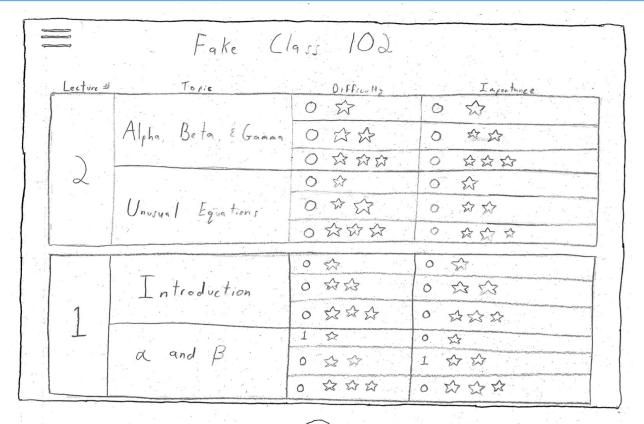
1 Home Ind Lectures

? Help

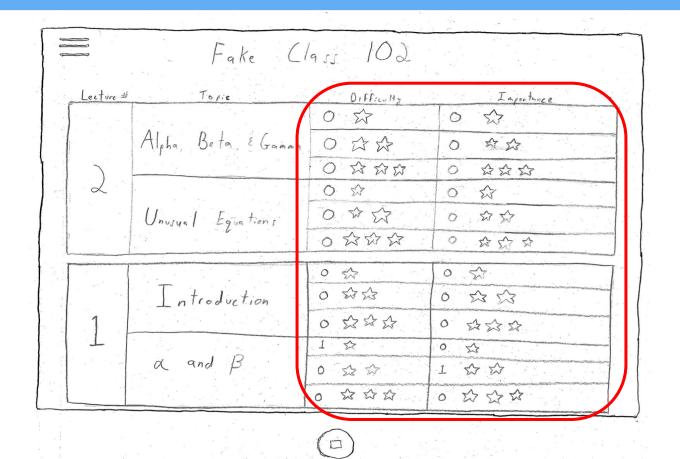
Initial Paper Prototype - Help Screen



Initial Paper Prototype - Lecture info



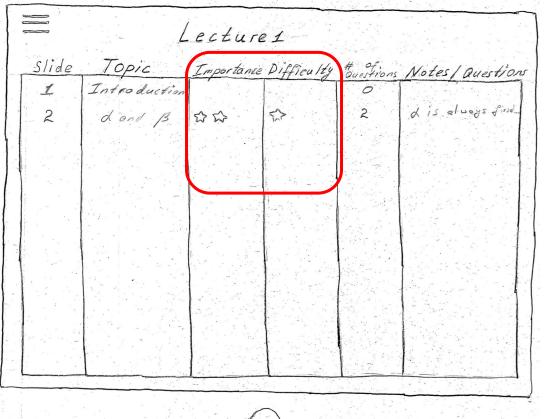
Initial Paper Prototype - Lecture info



Initial Paper Prototype - Topic info

3	4	ecture	21		
Slide	Topic	Importance	Difficulty	# of . Questions	Notes Questions
1	Introduction			0	
2	dand B		ightharpoonup	2	dis elmedz fing
		<u> </u>	1		

Initial Paper Prototype - Topic info



Testing Process

- Heuristic evaluations within our own team
- Heuristic evaluations with other students from CSE 440
- Usability testing with potential users of the end product
 - Aimed to get students of different backgrounds, within STEM
 - For the most part we got the process right
 - Biggest Change was how we presented context

Testing Results

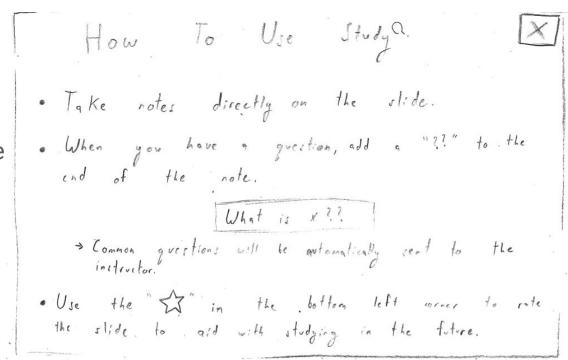
- At every step of the way, we caught a multitude of bugs
 - Made every effort to correct before the next testing, to ensure that we continued to find more issues with our design

- A couple areas that we struggled with the most:
 - Question asking Mechanism and associated help menu
 - Ratings on the lecture list screen
 - Lots of other additions based on user feedback

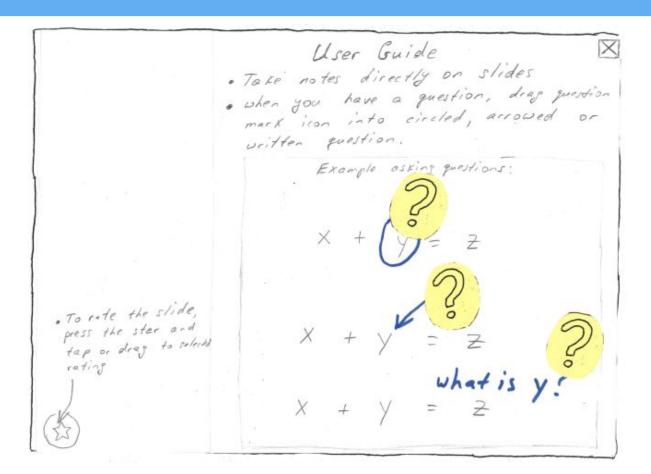
Question Asking System

The Question asking mechanism wasn't clear

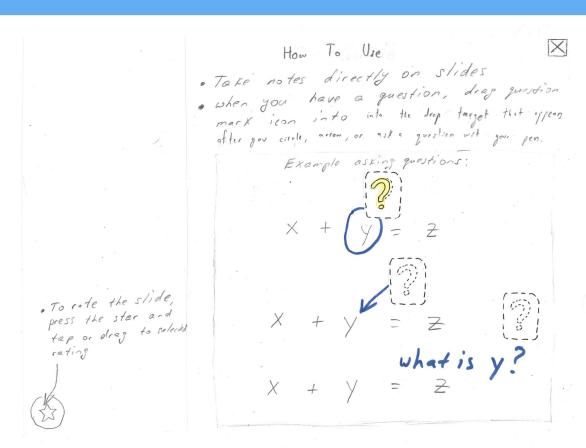
Users didn't like the double questions mark setup, suggested something more graphic/interactive.

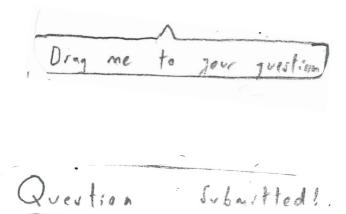


Question Asking System



Final Iteration of Community Questions

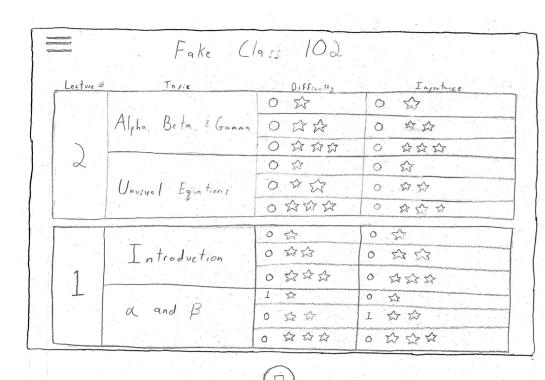




Users thought it was too visually busy

Difficult to read

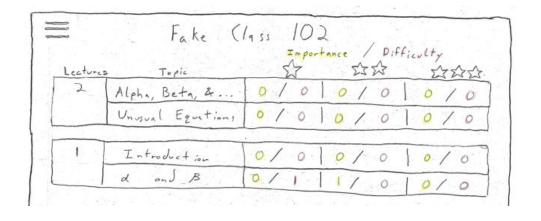
Lots of info/little insight

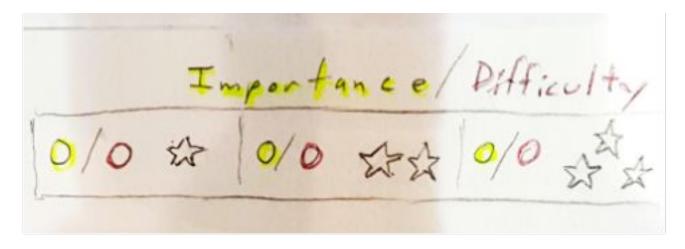


Combined the importance/difficulty, columns now by stars

Issues persisted:

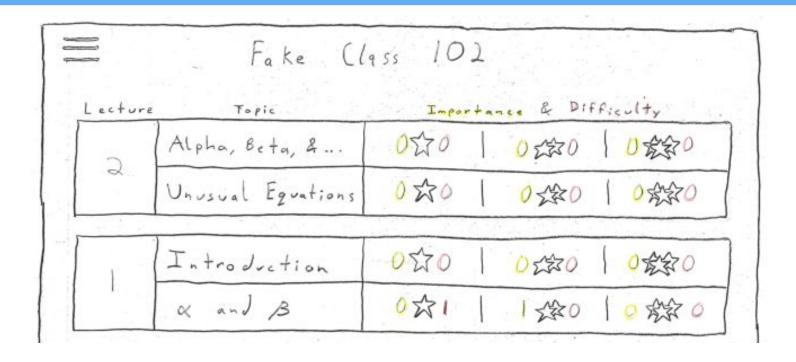
- Users thought it was too busy
- Difficult to read
- Lots of info/little insight





Proposed Fix: Minimize number of stars and color-code differences.

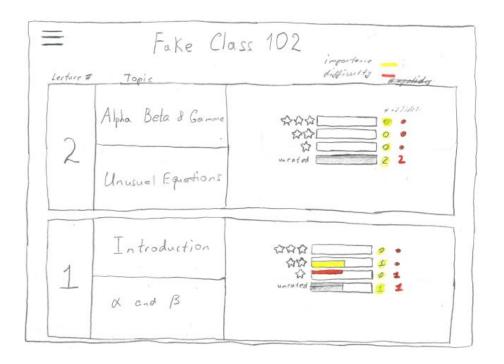
Still difficult to read, not quite what we wanted



Too many zeros - feels like we are reinventing the wheel

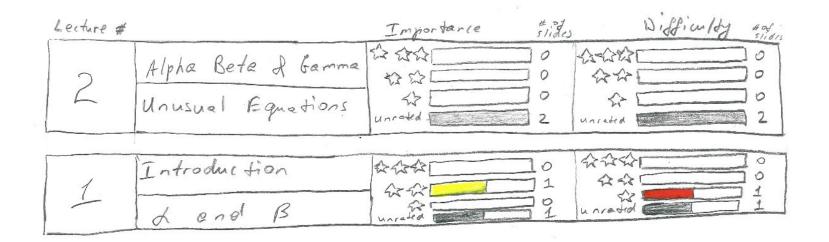


Back to a common design pattern - users liked it much more



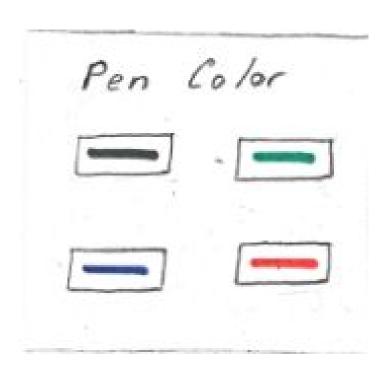
Almost there – percentages were ambiguous

Ratings Screen

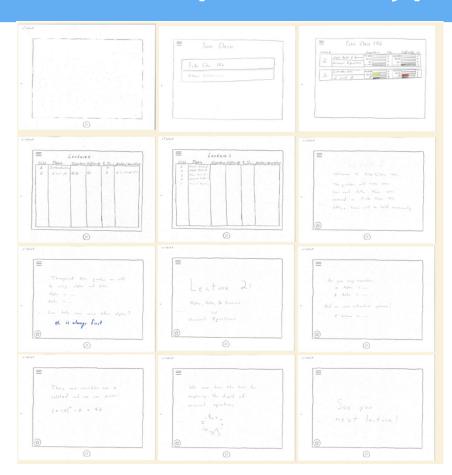


Final iteration – Very readable, easy to interpret information

Testing led to numerous smaller changes



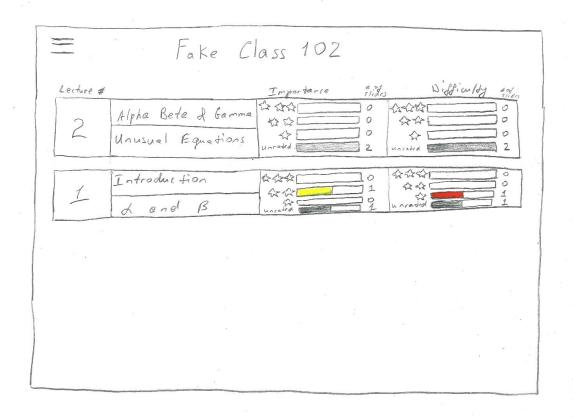
- Redesigned menu, added pen color options, changes/additions to gestures we supported, etc.
- Iterative design process meant we got better after each test - which led to users finding more sophisticated and minor problems with the application - didn't all just get hung up on the same thing



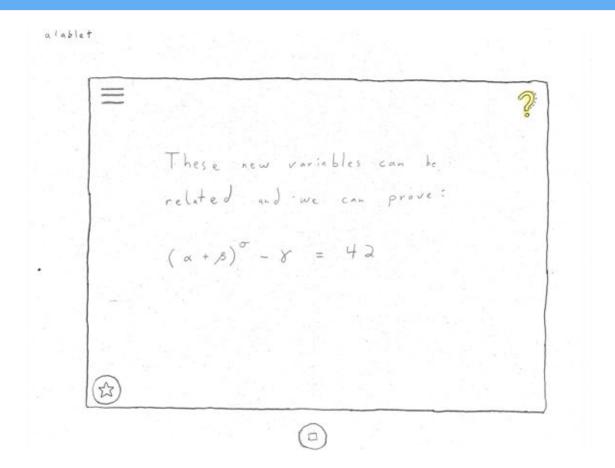


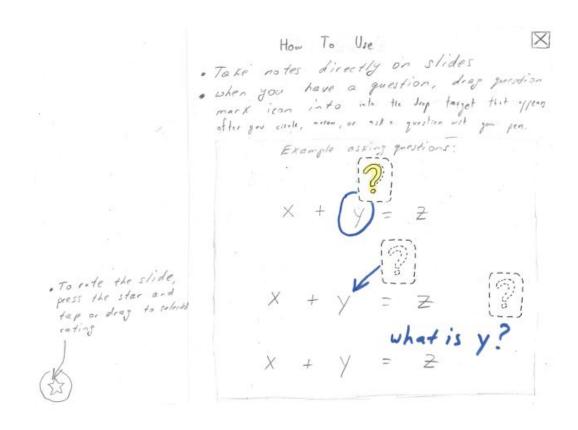
Your Classes

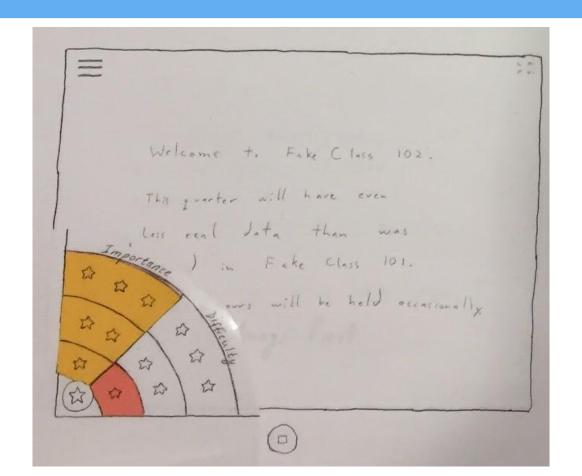
Fake Class 102

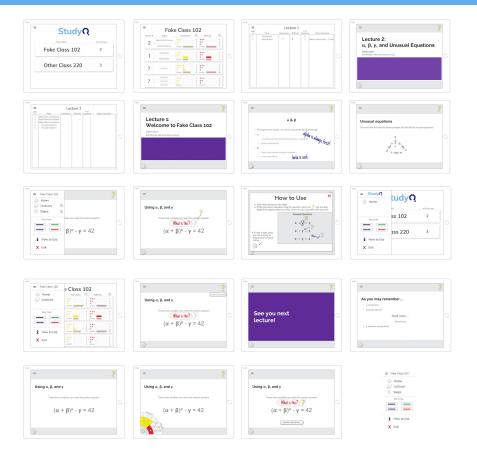


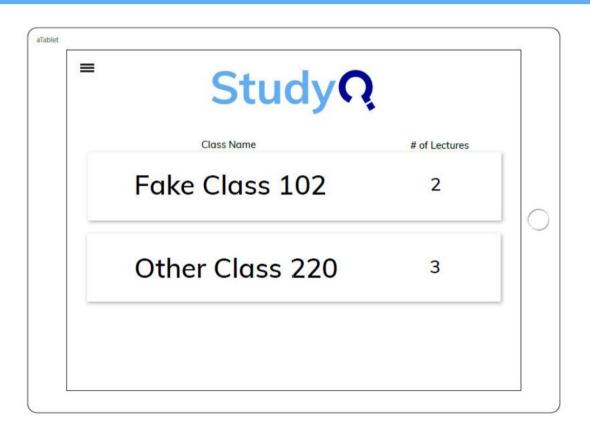
	Lectures				
Topic	Importance	Difficulty	# of ourstions	Notes / Question	
Introduction			0		
dand B		\Diamond	2	d is alwess find	
	Topic Introduction	Topic Importance Introduction	Topic Importance Difficulty Introduction	Topic Importance Difficulty tour tions Introduction	

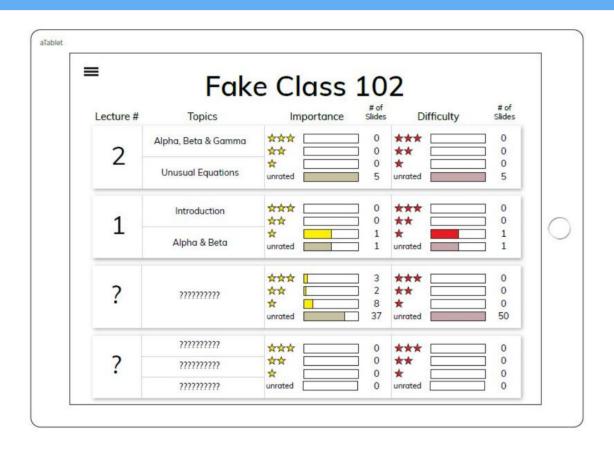


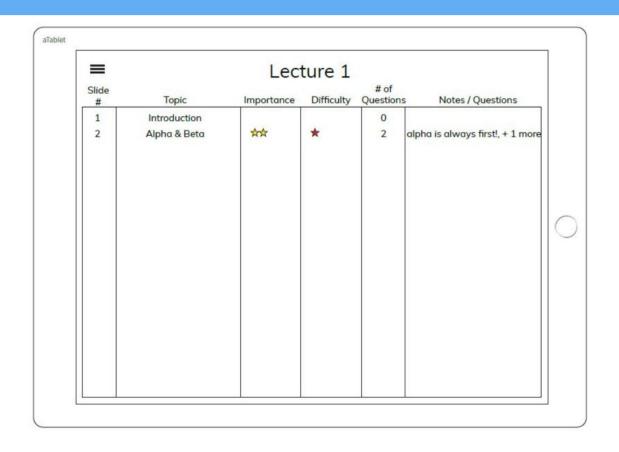


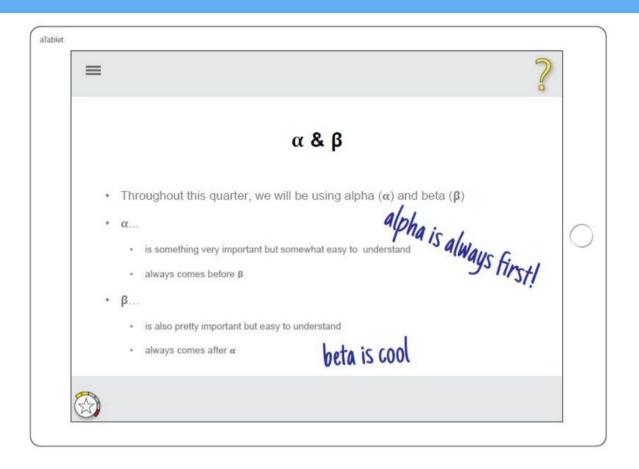


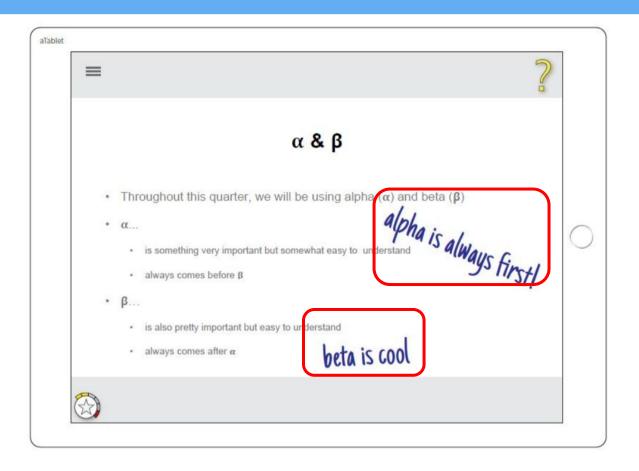


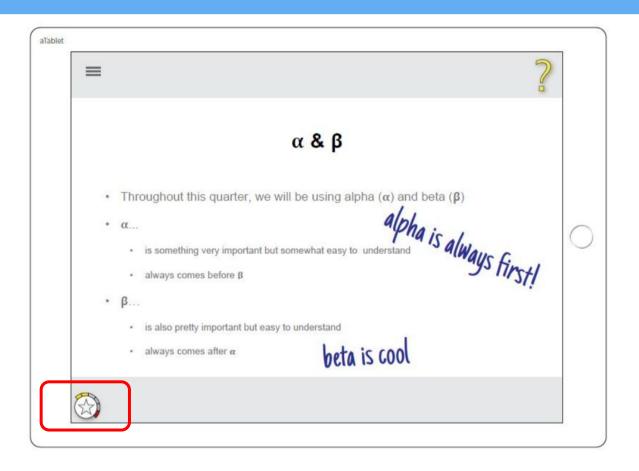


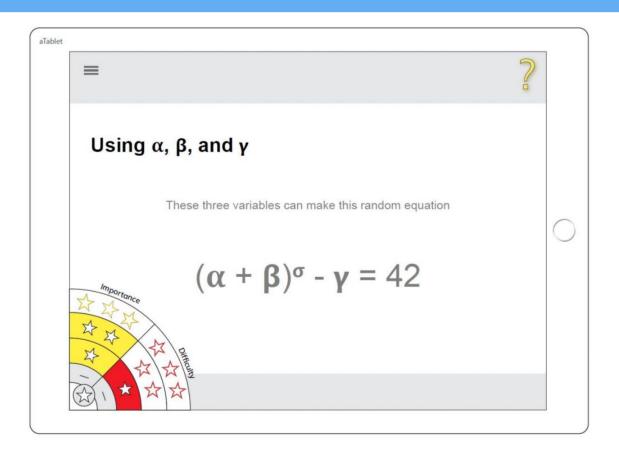


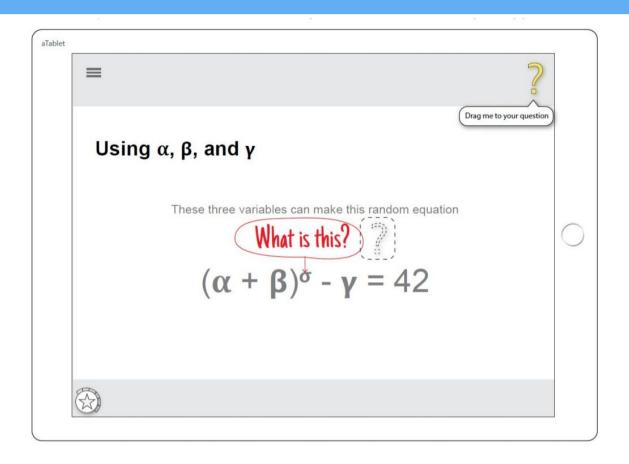


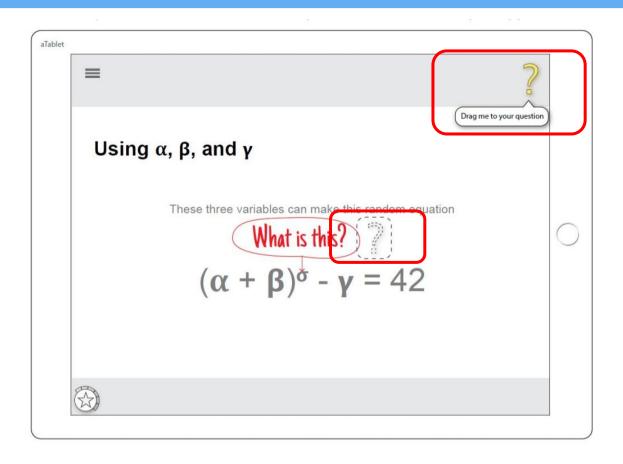


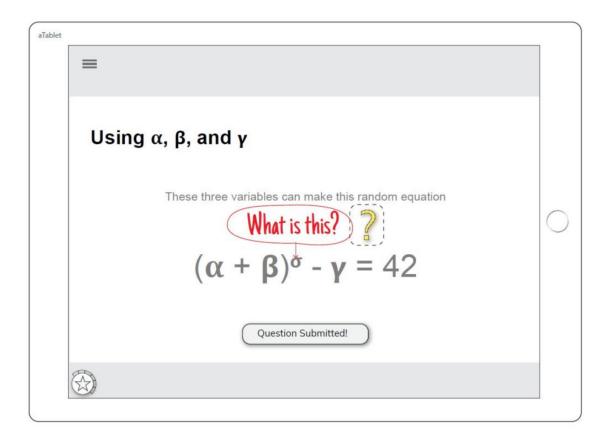












Summary

- Good context is more important than detailed instructions
- Iterate as many times as necessary
- One person's feedback isn't indicative of a design flaw
- Recognize problem with "paper" prototype vs. problem with design



Collaboration Team

Andrii Sagaidak

Royden Luckey Sam San Nicolas

Trevor Shibley