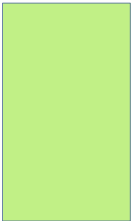


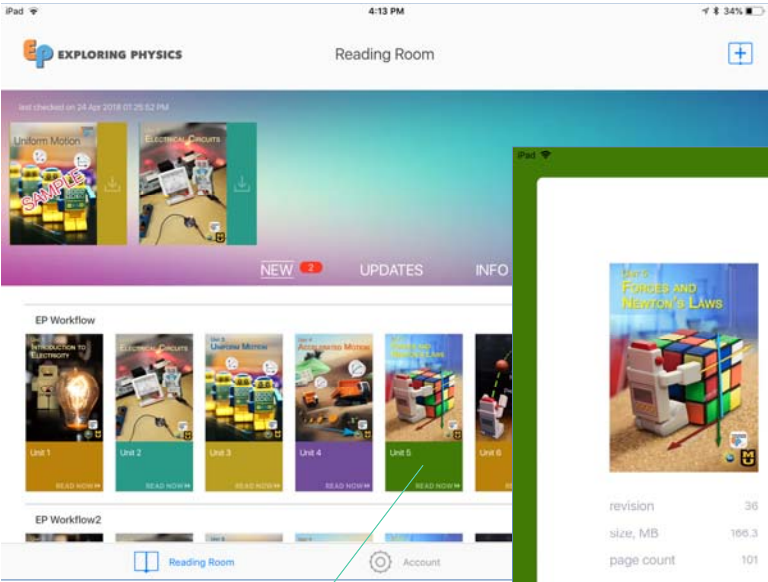
NAVIGATION – ALL PLATFORMS*

WITHIN THE EXPLORING PHYSICS APP

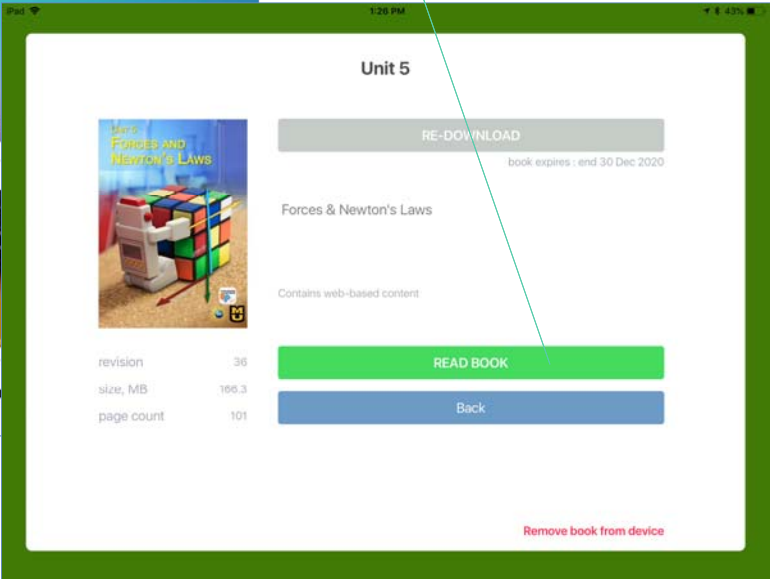


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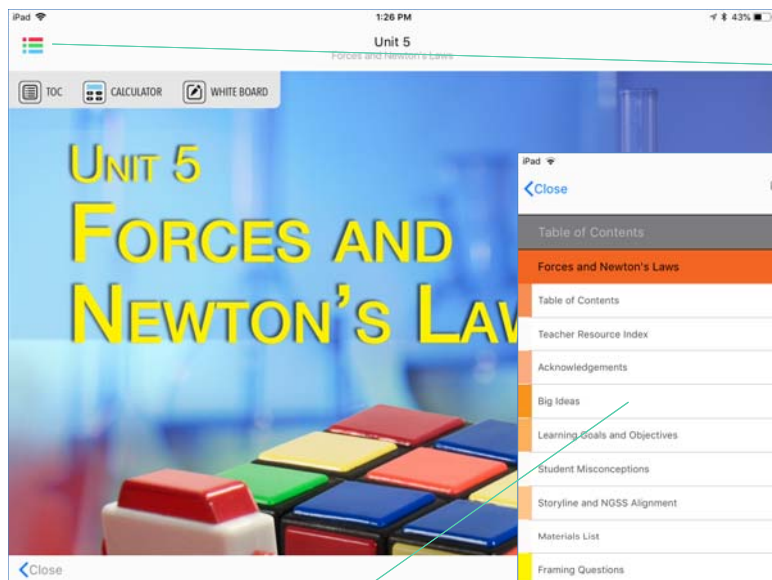
* iPad, Mac, Windows and Chromebooks



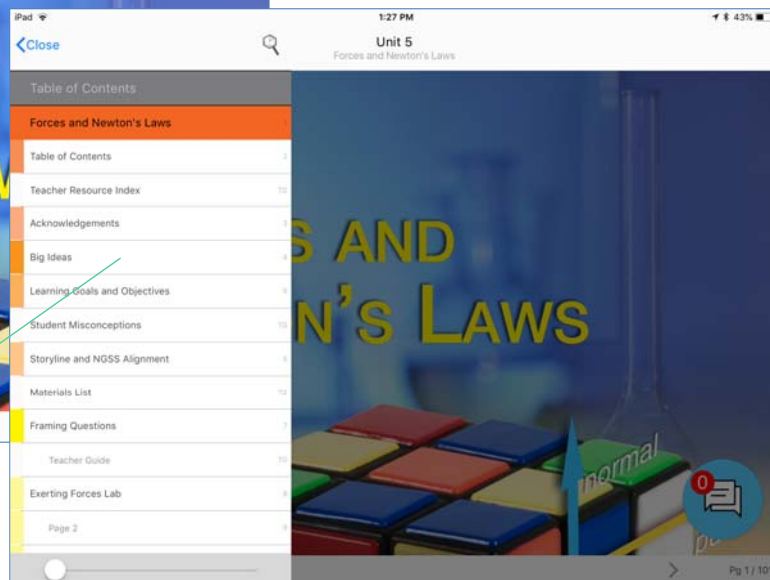
Click on “Read Book”.



Open the Exploring Physics App, and click on the desired unit.



Click the navigation icon.



Activity navigation list opens.

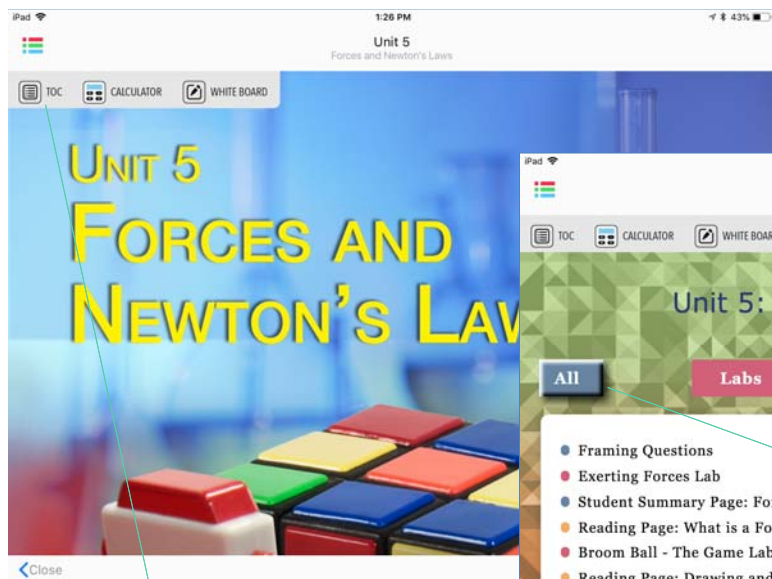
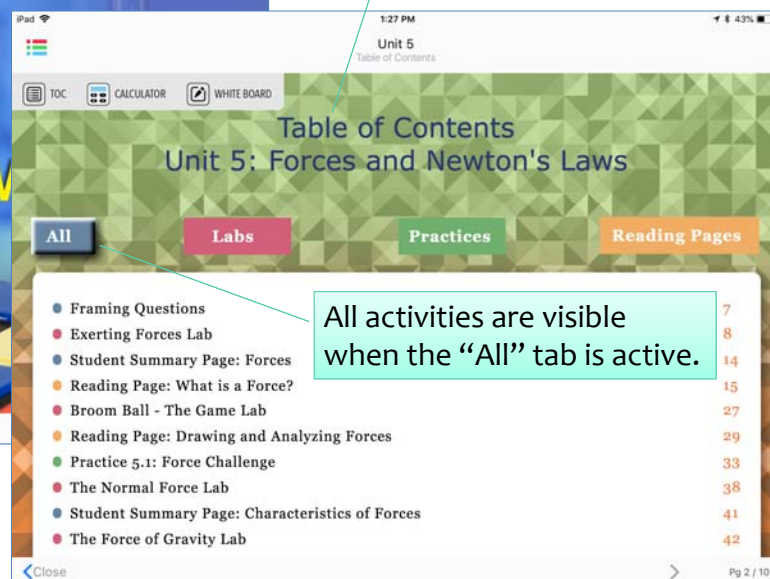


Table of Contents opens.



Click TOC icon.

All activities are visible when the "All" tab is active.

Table of Contents	
Unit 5: Forces and Newton's Laws	
All	Labs
Practices	Reading Pages
● Framing Questions	7
● Exerting Forces Lab	8
● Student Summary Page: Forces	14
● Reading Page: What is a Force?	15
● Broom Ball - The Game Lab	27
● Reading Page: Drawing and Analyzing Forces	29
● Practice 5.1: Force Challenge	33
● The Normal Force Lab	38
● Student Summary Page: Characteristics of Forces	41
● The Force of Gravity Lab	42

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Unit 5: Forces and Newton's Laws

All Labs Practices Reading Pages

- Exerting Forces Lab 8
- Broom Ball - The Game Lab 27
- The Normal Force Lab
- The Force of Gravity Lab
- The Elastic Force Lab
- Newton's First Law Lab
- Broom Ball Lab Revisited
- Newton's Third Law Lab
- Newton's Third Law Lab with
- Newton's Second Law Lab

All Labs Practices Reading Pages

- Practice 5.1: Force Challenge 33
- Practice 5.2: Force of Gravity and its Strength 50
- Practice 5.3: Forces in Springs 55
- Practice 5.4: Force Diagram
- Practice 5.5: Newton's First
- Practice 5.6: Identifying Pa
- Practice 5.7: Newton's Seco
- Practice 5.8: Forces, Motio

All Labs Practices Reading Pages

- Reading Page: What is a Force? 15
- Reading Page: Drawing and Analyzing Forces 29
- Reading Page: Measuring the Force of Gravity (Weight) 46
- Reading Page: Drawing Force Diagrams 56
- Reading Page: Newton's First Law 62
- Reading Page: Newton's Third Law 74
- Reading Page: Newton's Second Law

“Labs” tab reveals only the labs.

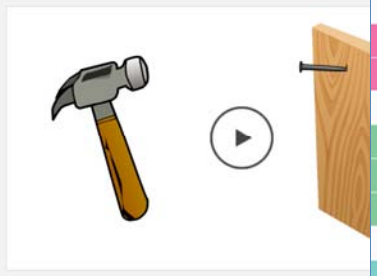
“Practices” tab reveals only the practices.

“Reading Pages” tab reveals only the reading pages.

Tap on any activity or page number to go to that page.

Unit 5
Reading Page: Newton's Third Law

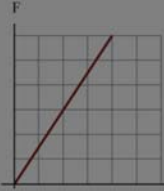
What is the connection between the forces acting on two objects that interact with each other? Let's consider the simple interaction between a hammer and a nail.



Unit 5
Practice 5.3: Forces in Springs

to use in her physics experiment. The only thing that the graph of force vs. stretch for each spring. No numbers were drawn to the same scale. Help Tanya rank the springs from the stiffest to the weakest. Explain your ranking.

Spring B



Spring C

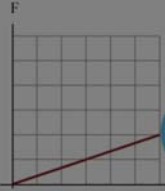


Table of Contents

- Teacher Guide
- Practice 5.2: Force of Gravity and its Strength
- Page 2
- Teacher Guide
- The Elastic Force Lab
- Page 2
- Page 3
- Teacher Guide
- Practice 5.3: Forces in Springs
- Teacher Guide
- Reading Page: Drawing Force Diagrams
- Page 2
- Page 3

... and scroll down the navigation list. Then click on the activity you wish to open.

If you are already on a page, click on the navigation icon...


Unit 5
Page 2

7 An owl is perched on a tree branch.

7a Select two objects that interact with each other. Identify object 1 and object 2.

+ Add your answer here

7b Draw force diagrams for each object separately, clearly labeling each force with the receiver's and agent's names.



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The carats allow you to go to the next or previous page.


Unit 5
Page 3

10 Mario pulls his suitcase along the floor.

10a Select two objects that interact with each other. Identify object 1 and object 2.

+ Add your answer here

10b Draw force diagrams for each object separately, clearly labeling each force with the receiver's and agent's names.



The calculator icon opens a basic calculator.



The calculator can be moved on the page, and it remains in position as you scroll through the page.


Unit 5
Page 3

10 Mario pulls his suitcase along the floor.

10a Select two objects that interact with each other. Identify object 1 and object 2.

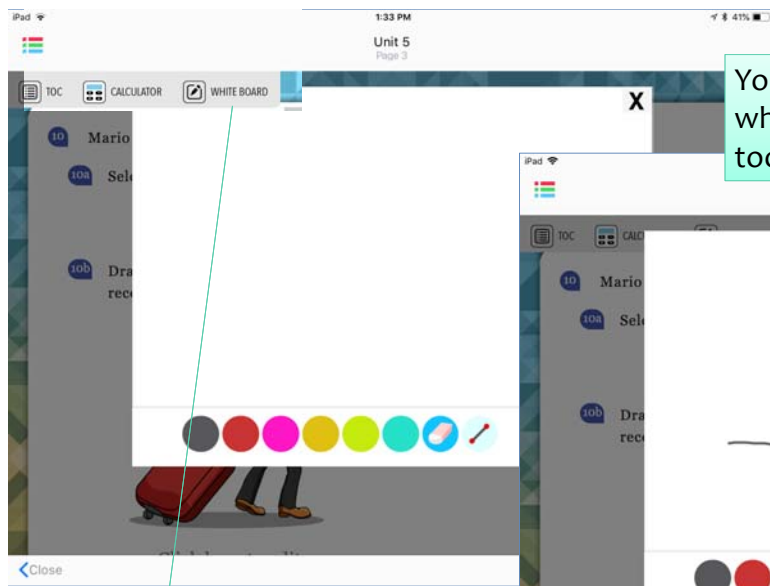
+ Add your answer here

10b Draw force diagrams for each object separately, clearly labeling each force with the receiver's and agent's names.



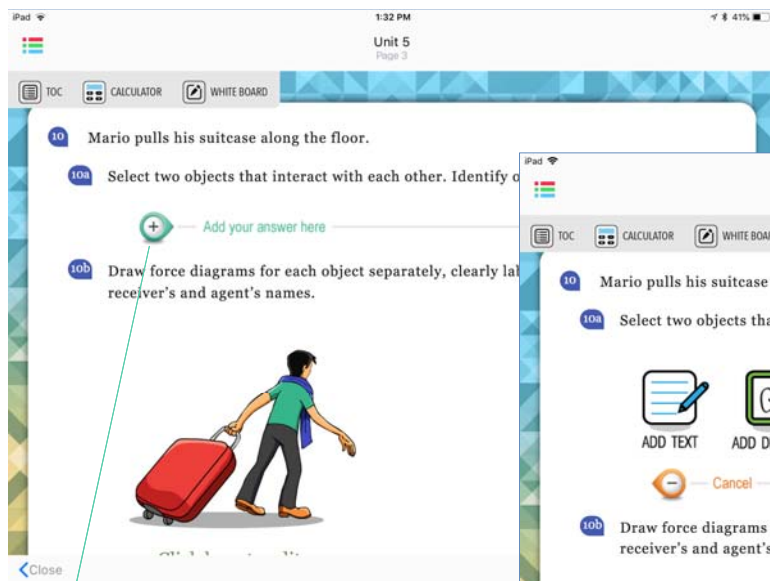
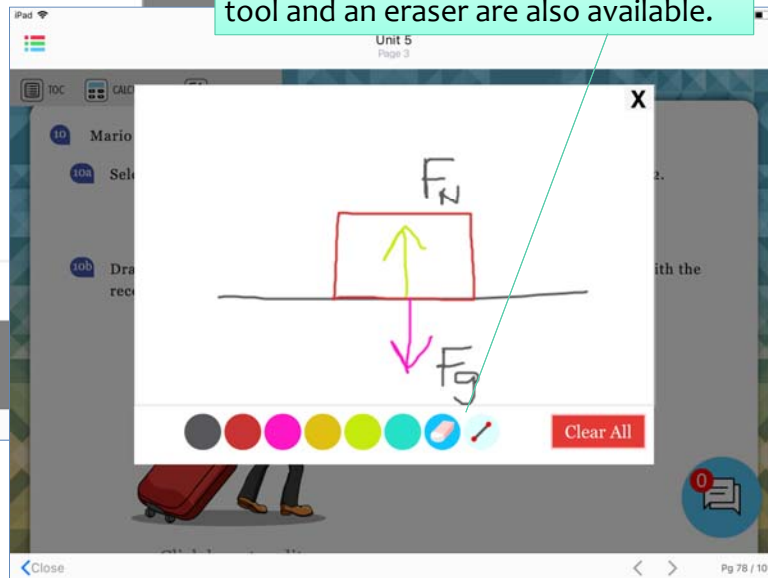
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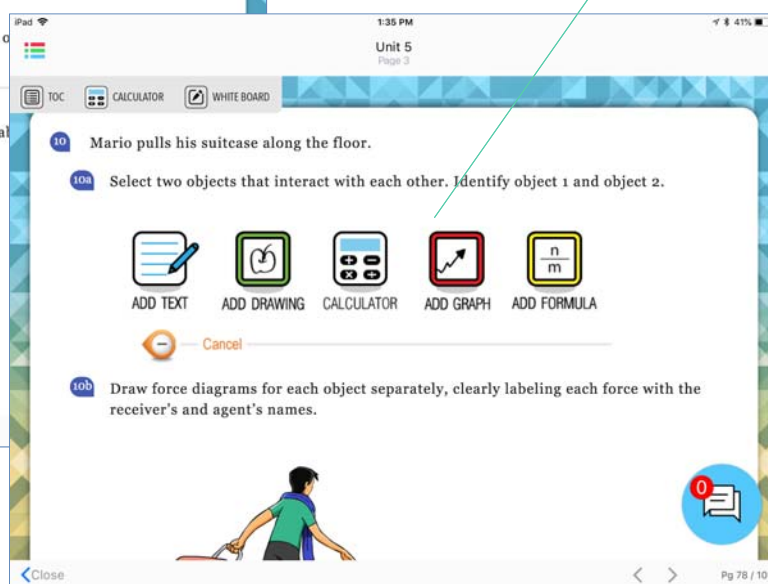
The whiteboard icon opens a basic drawing palette.

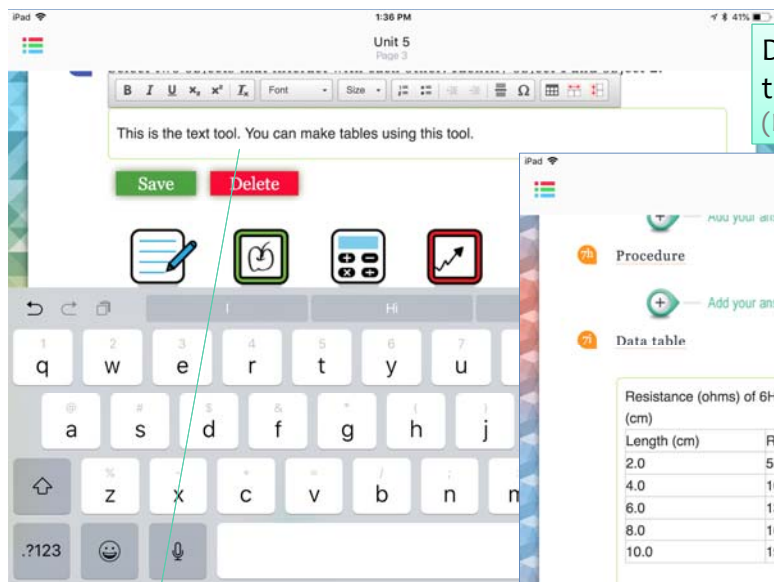
You can draw or write on the whiteboard in several colors. A line tool and an eraser are also available.



Answers can be entered in the app by tapping on the “+” icon.

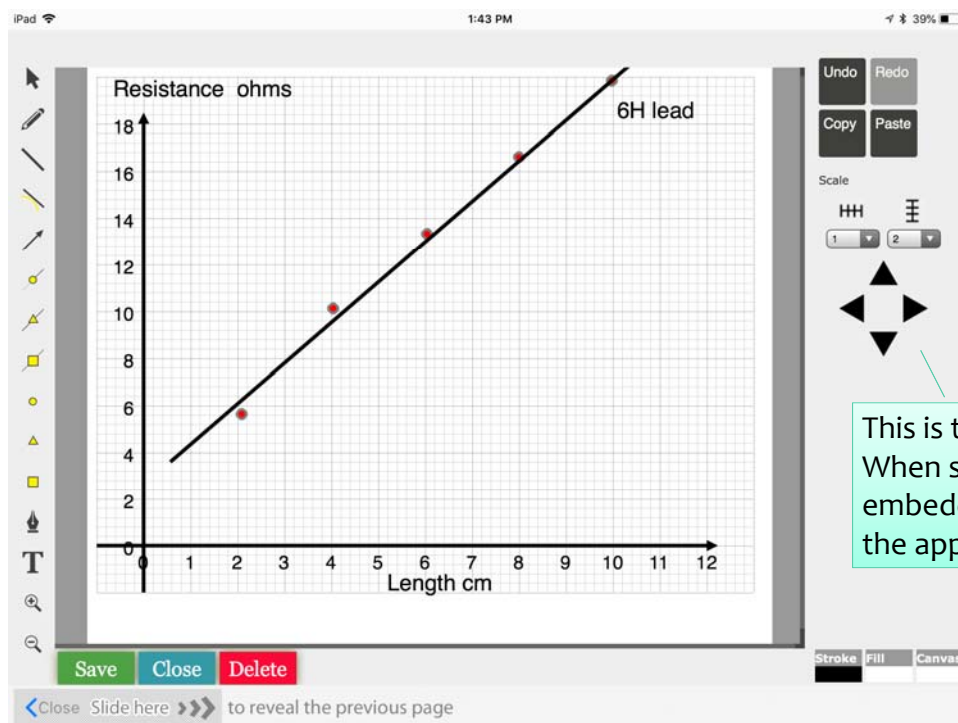
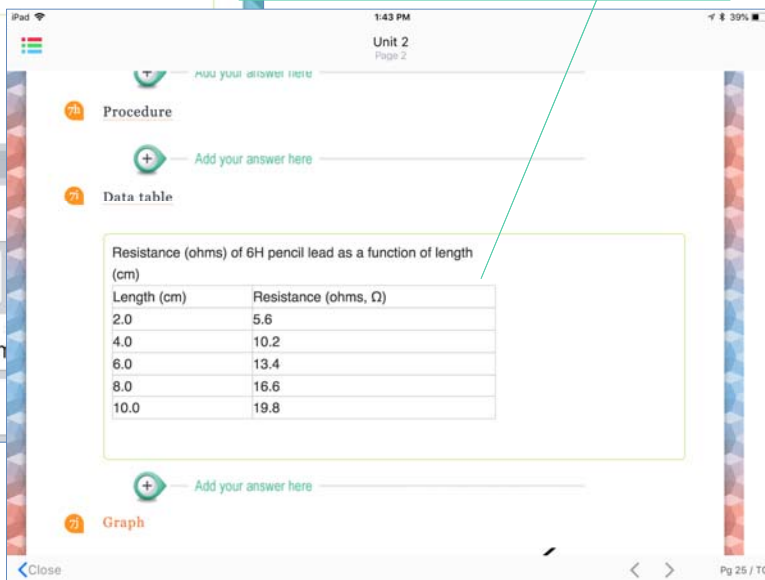
You can enter answers as text, drawings, graphs or formulae.



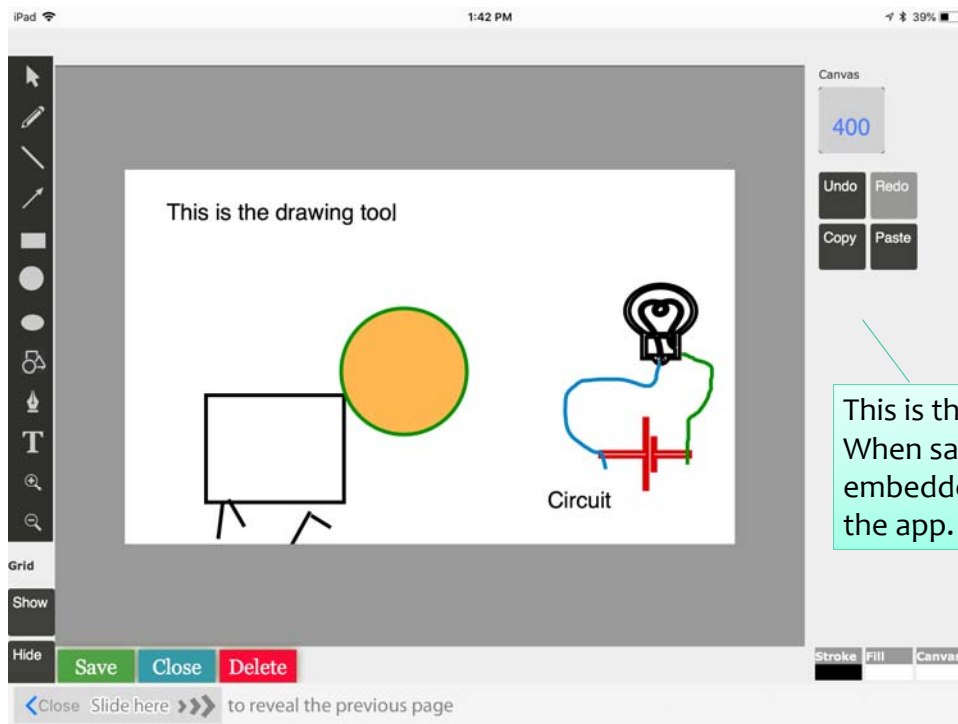


Data tables can be made using the table feature of the text tool. (Not yet available on Chromebooks).

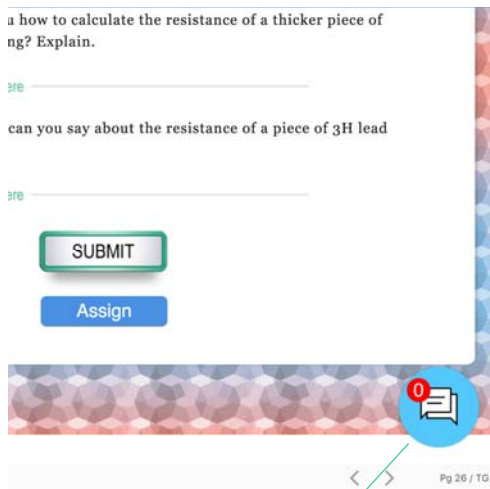
Type to enter text. On certain devices answers can also be dictated.



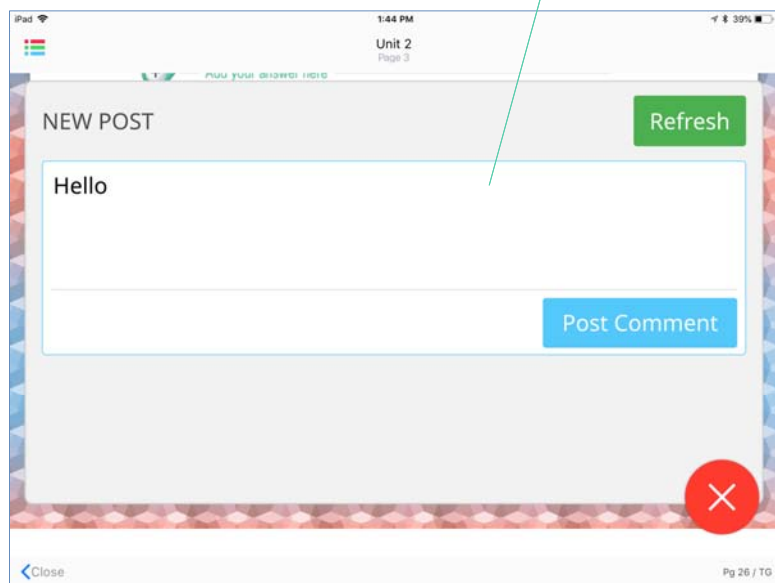
This is the Graph tool. When saved, the graph is embedded in the page of the app.



This is the Drawing tool. When saved, the drawing is embedded in the page of the app.



The Chat function is present on every page. Chats can only occur among the school / organization.



The Chat window allows the teacher and students to share their posts on each page.