

**So your students have an ipad;
now what?!**

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Mt. Prospect, Illinois



Manufacturing Internet Bandwidth



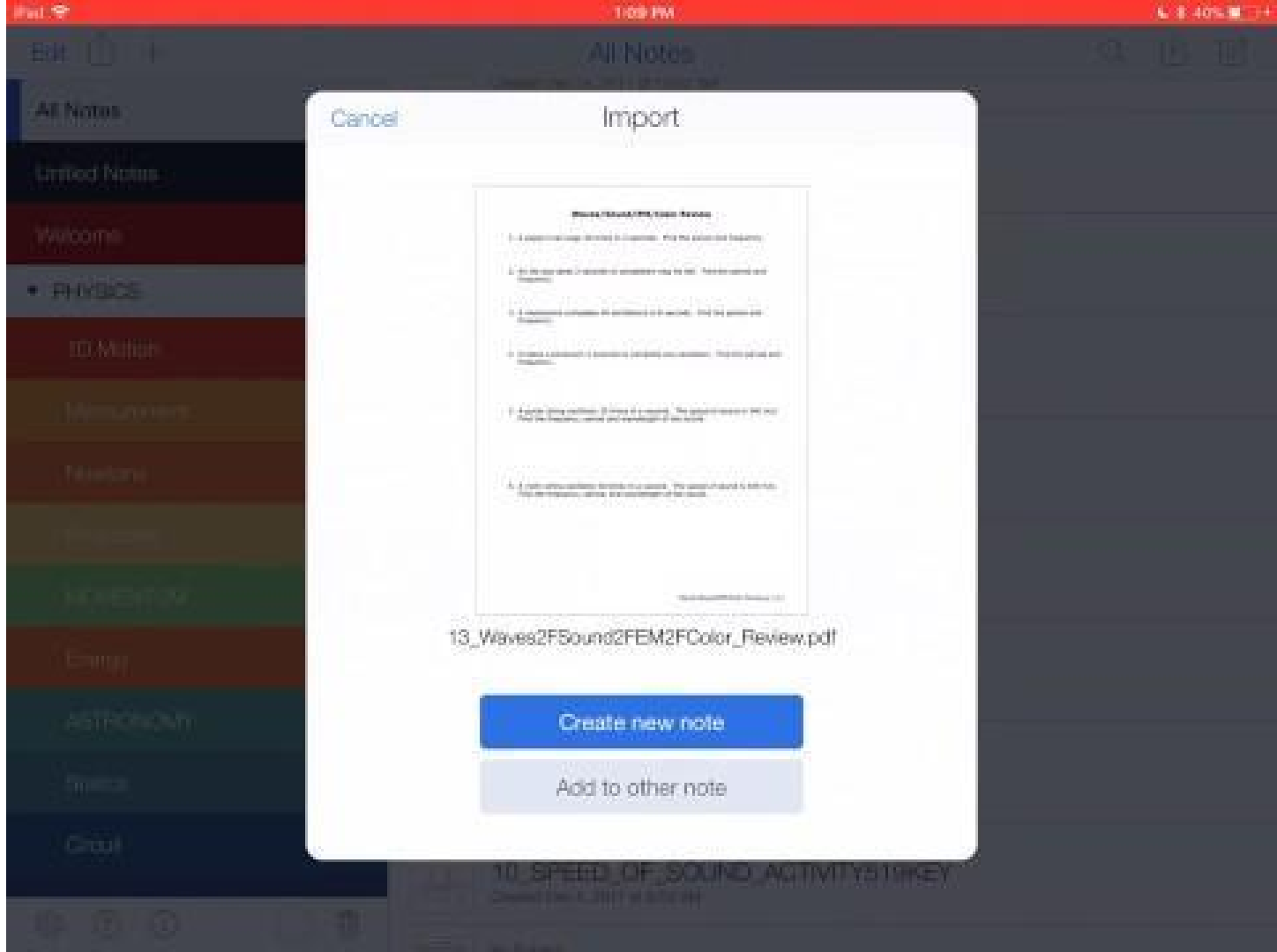
Image courtesy: The Carphone Network Operators Group (CNETG)



iPad vs. other tech



The Paperless Classroom





canvas



iTunes U app



DISCUSSIONS

current topics
in physics.

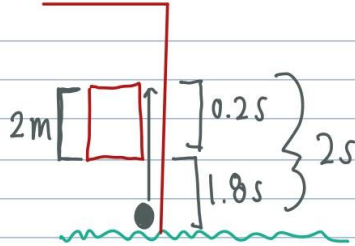




NOTABILITY

#2

- A ball tossed vertically upward from the ground next to a building passes the bottom of a window 1.8 s after being tossed and passes the top of the window 0.2 s later. The window is 2.0 m high from top to bottom.
 - (a) What was the ball's initial velocity?
 - (b) How far is the bottom of the window from the launch position?
 - (c) How high does the ball rise above the launch position.



$$\Delta x = ?$$

$$v_i = 9.02 \text{ m/s}$$

$$v_f =$$

$$a = -9.8 \text{ m/s}^2$$

$$t = 2 \text{ s}$$

$$x_f = x_i + v_i t + \frac{1}{2} g t^2$$

$$2 = 0 + v_i (0.2) + \frac{1}{2} (9.8) (0.2)^2$$

$$v_i = \frac{2 - (.5)(9.8)(0.2)^2}{0.2} = \boxed{9.02 \text{ m/s}}$$

gravity propagates through space via particles name/particle called "graviton"

- In his 1915 General Theory of Relativity, Albert Einstein related gravity to distortions in space time. A reasonable hypothesis is that these distortions propagate and can be detected by a change in space-time at a distant location. Recent detectors have sought to make such measurements.

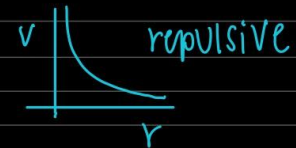
• $L(g_0) \rightarrow$ gravity detector

• strain is the fractional length $\frac{\Delta L}{L}$
 • strain very small

Gravity

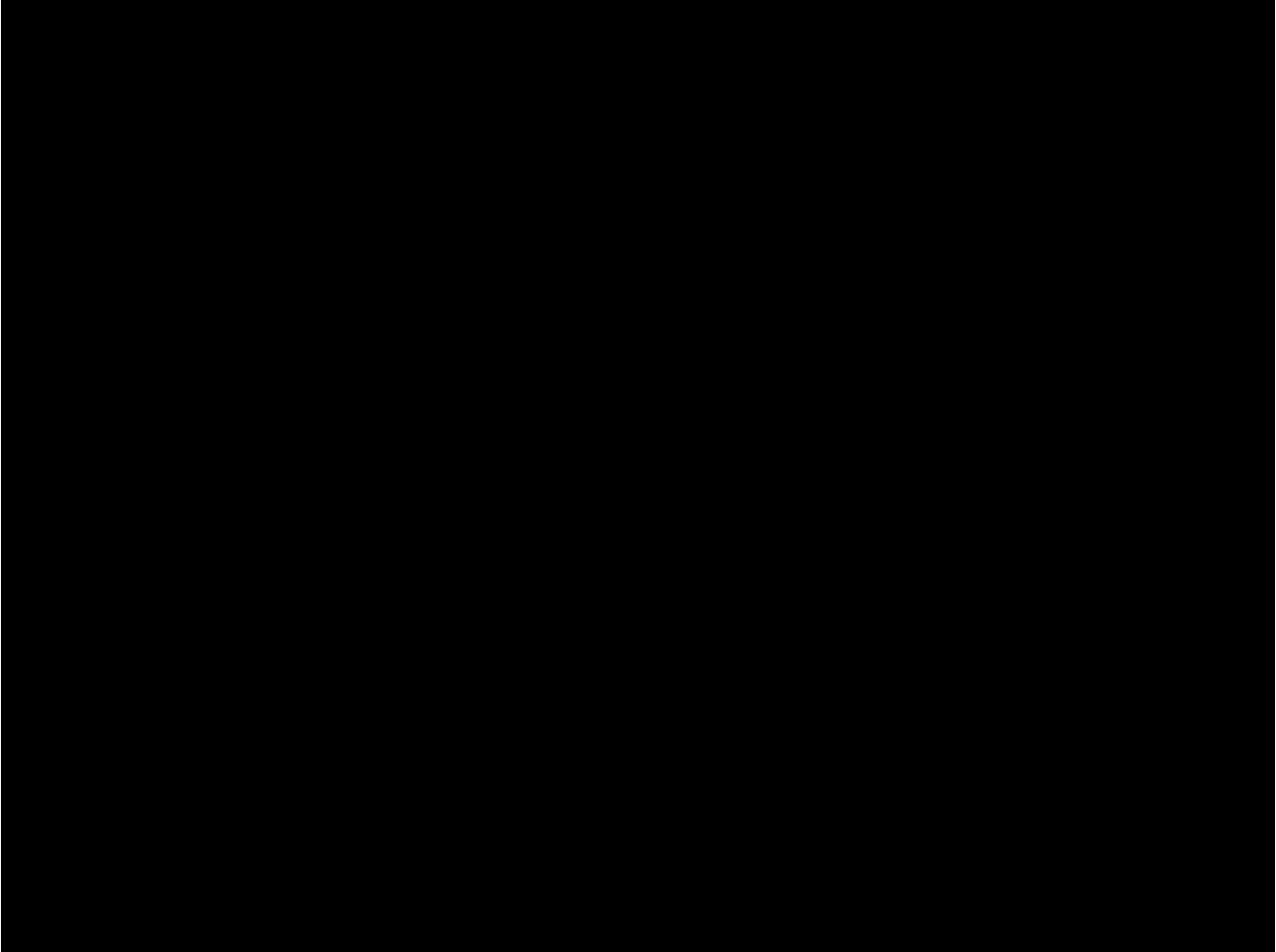
- conservative force, PE
- elliptical orbit: energy change bwn K & U

Potential Energy



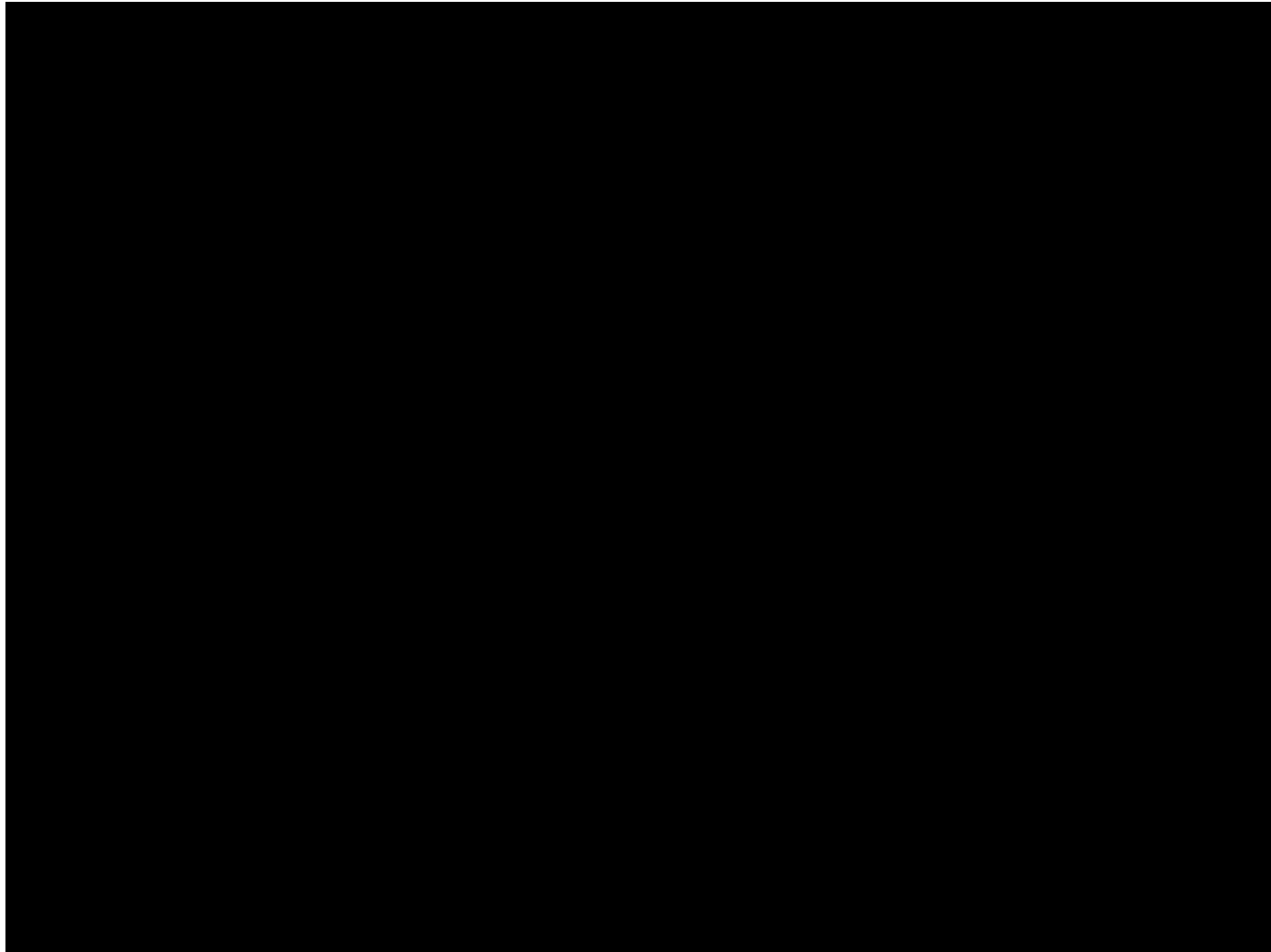
G PE

- g forces always attractive
- 0 infinite separation
- GPE is neg for finite distances

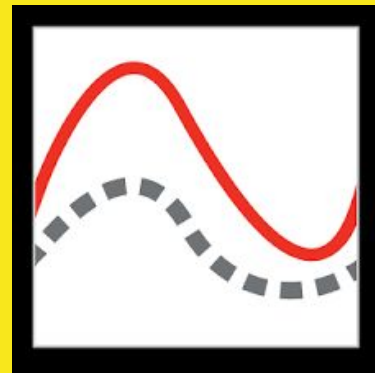


Pulling it all
together

Off-task
behavior;
what?!



Whoa.



Labs and Data Collection





Graphical

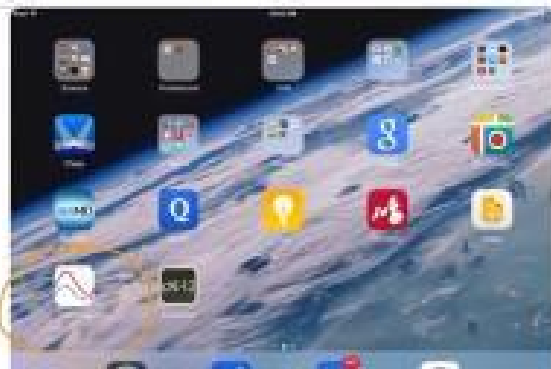


5. CONNECT THE LABQUEST TO YOUR IPAD:

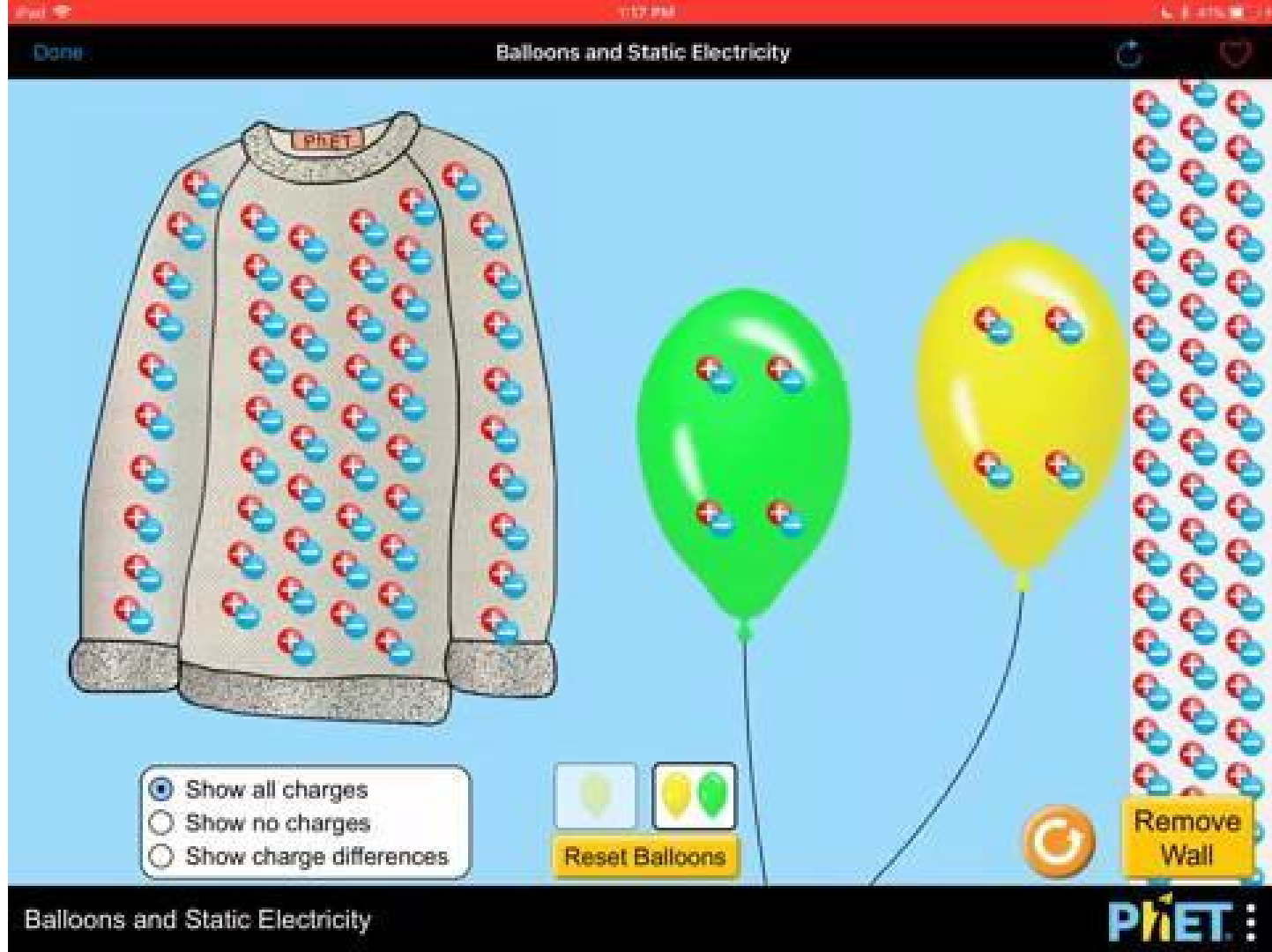
Choose the Home button at the bottom of the screen.

Then, choose CONNECTIONS

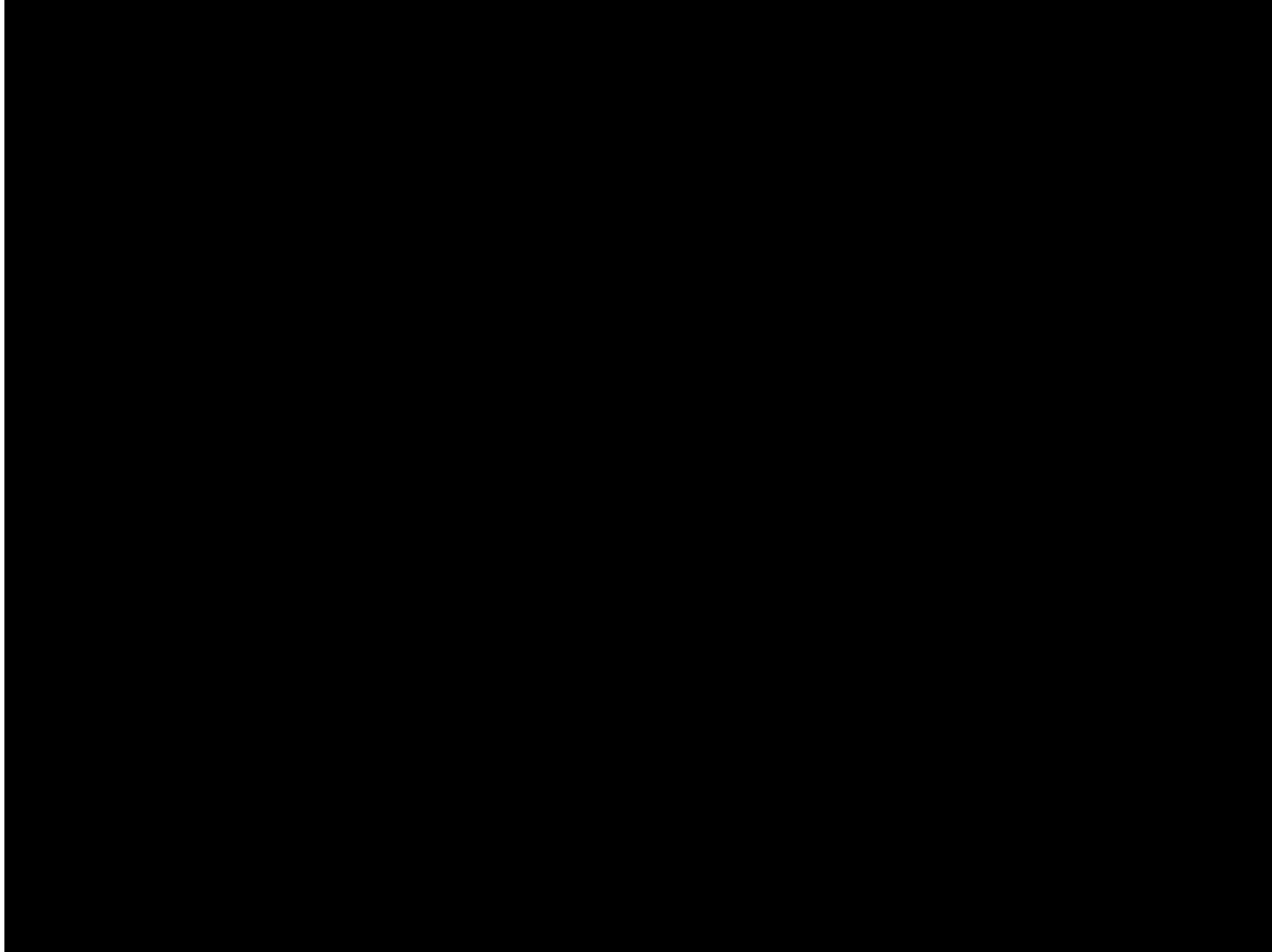
THEN, OPEN THE VERNIER GRAPHICAL ANALYSIS APP on your iPad:



PHET Sims









Scott McDermott

Lucky to have
@designatedne
@PHSPhysics i
class & share h
about coding &
design @Knigh
@District214



Jessi Chartier
@JessiChartier

Hey @PagePhysics some of
your researchers were asking
about networking skills. Here's a
good article to pass along.



A Guide to Networking at
Business Events
learningsolutionsmag.com

10/4/17, 7:02 AM

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Scot...





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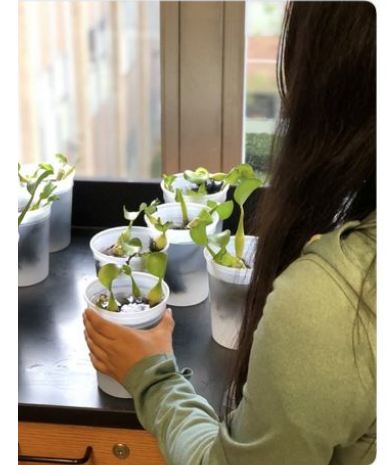
75%



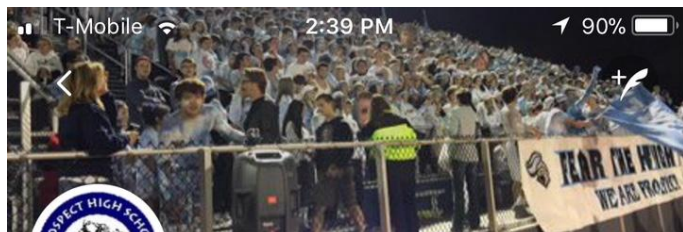
Notifications



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research can be so cute! And
one day soon 🦋
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research
g aquatic
rey water.



PHSPHysics&Research

@PHSPHysics

Mrs. Page's physics and research classes at Prospect High School.

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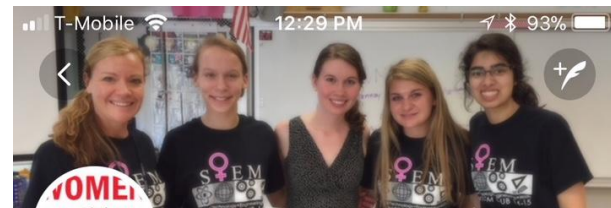
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Women in STEM is for all the women of PHS! Guest speakers, field trips, internships and inspiration!

📍 Prospect High School, Mt. Pros

🔗 schoolology.d214.org/course/218408...

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