

**TAP INTO TEEN MINDS**  
 WWW.TAPINTOTEENMINDS.COM @MathletePearce



**Learning Target:**  
 We are learning to use tablet technology in the mathematics classroom to enhance student learning, increase student success and increase student engagement.

**Digital Handouts Are Available:**  
[tapintoteenminds.com/bluewater](http://tapintoteenminds.com/bluewater)

<http://www.tapintoteenminds.com>  
[kyle.pearce@gecdsb.on.ca](mailto:kyle.pearce@gecdsb.on.ca)  
[@MathletePearce](https://twitter.com/MathletePearce)

**Stay Connected:**  
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[kyle.pearce@gecdsb.on.ca](mailto:kyle.pearce@gecdsb.on.ca)

[www.tapintoteenminds.com](http://www.tapintoteenminds.com)

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

TECUMSEH VISTA ACADEMY  
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**iPad/Tablet Misconceptions**  
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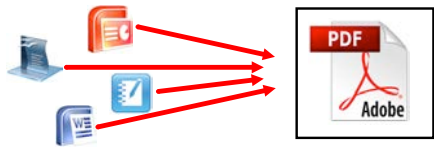
- Technology, such as tablets, are a distraction**
  - Any resource (including peers) can be a distraction if used inappropriately
- Tablets can only be used as an enrichment tool**
  - Much more than just "APPS"
  - Can be used effectively throughout lesson
- The cost of tablets can never be justified**
  - No Textbooks or extensive photocopying (toner/paper)
  - Eliminate need for clicker systems & traditional IWB's
  - Digital collaboration promotes a dynamic learning environment
  - Price of tablets continues to fall
- Tablets can "fix" my classroom**
  - Can only enhance through good teaching practice

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**TIPS4RM Model Without the Paper!**  
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**Yes, iPads Can Do a Three-Part Lesson!**

Educators in any subject area can create lesson materials in such programs as **Microsoft Word** or **SMART Notebook** and then save their work as a **Portable Document Format (.PDF)** form.

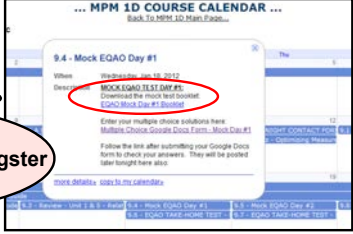


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**How Do Students Access the PDF?**  
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**Post the file on a course website**

Google Calendar, Weebly, Wordpress or Blogster work great!



Students download the file from the course website during class on the iPad, at home on their desktop, or on the way to their volleyball game via smartphone.

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**Access My Website:**  
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Tap on the **address bar** at the top of the screen and type in:  
**www.TapIntoTeenMinds.com/Bluewater**

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**A Google Calendar Works Excellent!**  
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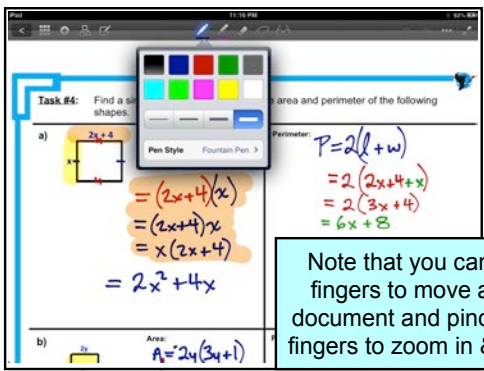


Tap on the calendar entry on Today's Date.

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**Goodnotes - Annotation App**  
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Learn More Here: [www.tapintoteenminds.com/Goodnotes](http://www.tapintoteenminds.com/Goodnotes)



Task #4: Find a shape's area and perimeter of the following

a)  $2x+4$

$$= (2x+4)(x)$$

$$= (2x+4)x$$

$$= x(2x+4)$$

$$= 2x^2 + 4x$$

Perimeter:  $P = 2(l + w)$

$$= 2(2x+4+x)$$

$$= 2(3x+4)$$

$$= 6x + 8$$

b)  $3x$  Area:  $A = 24(3x+1)$

Note that you can use two fingers to move about the document and pinch with two fingers to zoom in & zoom out.

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**Customizable Pen & Shape Tools**  
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Learn More Here: [www.tapintoteenminds.com/Goodnotes](http://www.tapintoteenminds.com/Goodnotes)

Customizable pens, highlighters, import photos, shape tool, zoom tool and much more!

$= 6x + 8$

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**Apple TV & iPad: Student-Led Learning**  
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Learn More Here: [www.tapintoteenminds.com/AppleTV](http://www.tapintoteenminds.com/AppleTV)

Students **INSTANTLY** Lead Class By Mirroring iPad Screen to the Projector.

Endless Possibilities:

- Digital Bansho
- Instant Math Congress
- Become a "Guide on the Side" rather than facilitator

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**How Do Students Study At Home?**  
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There are multiple options, but here's a couple ways:

Students annotate and create digital content on their iPad

Dropbox  
 Save work to Dropbox for access from anywhere

Email  
 Save work to Dropbox for access from anywhere

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**Access Your Digital Portfolio Anywhere**  
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iPad or Other Tablet Device

Mobile Device

Desktop Computer

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## Replace Clickers With Google Drive

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Learn More Here: [www.tapintoteenminds.com/GoogleDrive](http://www.tapintoteenminds.com/GoogleDrive)

<ul style="list-style-type: none"> <li>Free, Web-Based</li> <li>Data stored in spreadsheet</li> <li>Use any device</li> <li>Participate from anywhere</li> <li>No Student Accounts</li> </ul>	<ul style="list-style-type: none"> <li>Purchase Device/License</li> <li>Data difficult to manipulate</li> <li>Specific device / Software</li> <li>Participate from same room</li> </ul>
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## Google Drive: A Must for Every Classroom

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Learn More Here: [www.tapintoteenminds.com/GoogleDrive](http://www.tapintoteenminds.com/GoogleDrive)

### Some of the Possibilities:

Collect data daily:  
Polls, assess *as, for and of* learning, minds on, ticket out the door, etc.

Allows teacher to quickly determine student strengths and weaknesses daily.

Homework & assignment checklists  
...and more!

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## Using a Google Drive "Form" to Poll Students

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Click **CREATE** and select **FORM**

Click **ADD ITEM** to customize your form

**Question Types:**

- Text
- Paragraph Text
- Multiple Choice
- Checkboxes
- Choose from a list
- Scale
- Grid

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## Instant Feedback

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### Submissions Appear Instantly to Teacher's Google Account

**Quick Snap-Shot of Student Understanding**

**Add Flubaroo to Even Grade Submissions For You!**

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**How Easy Is It? You Tell Me!**  
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Go to the Following Link  
 on an iPad, Laptop, or Smartphone:

[www.tapintoteenminds.com/poll](http://www.tapintoteenminds.com/poll)

This link is also accessible via the Google Calendar.

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**Share Student Progress Daily via iPad**  
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**Public Google Docs Spreadsheets  
 Keep Parents Informed Instantly During Class on iPad**

EQAO DAY 2 DATA (POSTED TUE. JANUARY 24th, 1:00PM)								
EQAO Multiple Choice Day 2 (out of 53)	EQAO Multiple Choice Day 2 (as a Percent)	Task K26 (LEVEL OUT OF 6)	Task K27 (LEVEL OUT OF 6)	Task K28 (LEVEL OUT OF 6)	Task K29 (LEVEL OUT OF 6)	Total Marks (29 Total)	Total Day 2 Percentage	Level 3 or Better
11	85%	4	4	4	4	27	93%	YES
6	60%	4	4	4	3	21	72%	YES
9	69%	3	4	2	4	22	76%	YES

Changes Update Instantly to the Web  
 Students Can Create Their Own Checklists, Etc.

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**Replacing Interactive Whiteboards** splashtop  
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Learn More Here: [www.tapintoteenminds.com/Splashtop](http://www.tapintoteenminds.com/Splashtop)

Splashtop Remote Desktop allows me to use my iPad as a handheld, wireless Interactive Whiteboard

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**Math Apps Can Be Used During a Lesson**  
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Math apps such as Algebra Touch or DragonBox can be utilized during a Minds On or the Consolidation portion of your lesson when appropriate.

[tapintoteenminds.com/AlgebraTouch](http://tapintoteenminds.com/AlgebraTouch) | [tapintoteenminds.com/DragonBox](http://tapintoteenminds.com/DragonBox)

Algebra Touch

Dragonbox

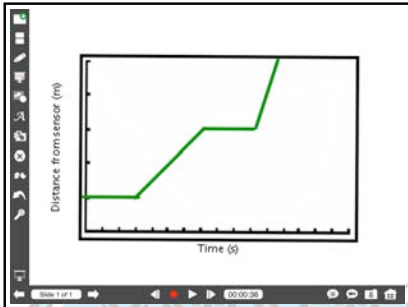
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**Explain Everything**  
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Learn More Here: [www.tapintoteenminds.com/ExplainEverything](http://www.tapintoteenminds.com/ExplainEverything)

Students and teachers can create videos to communicate understanding of a particular concept and share with the class via blog or Apple TV.



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**AppleTV + iPad: Wireless Document Camera**  
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Use the Camera app on iPad and mirror screen with Apple TV to create a wireless document camera.

Great for experiments

Allows you to record video while displaying the screen capture on the projector

The cost of one document camera alone could purchase two iPads for a classroom




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**Khan Academy & The Flipped Classroom**  
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**FREE** videos & practice material

- Use on iPad or Computer
- Access from school or home
- Teachers can monitor progress



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**New Apps & Uses Are Discovered Everyday**  
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Free GraCalc

Scientific

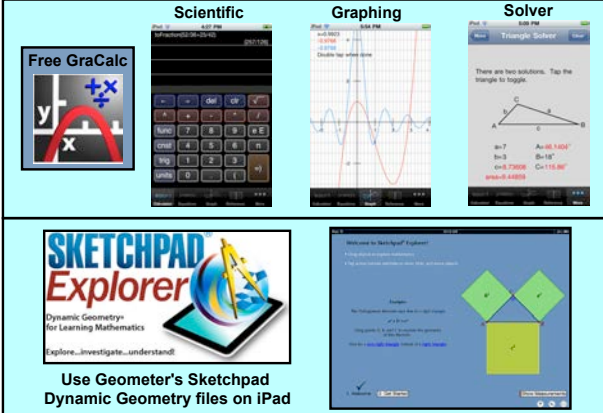
Graphing

Solver

SKETCHPAD Explorer

Dynamic Geometry for Learning Mathematics

Use Geometer's Sketchpad Dynamic Geometry files on iPad



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**Apple Introduces iBooks Author & iTunes U**  
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Full Courses & Interactive Textbooks are Now Available for the iPad

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**Technology to Create Real World Problems**  
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The Detention Buy-Out  
[tapintoteenminds.com/detentionbuyout](http://tapintoteenminds.com/detentionbuyout)

Exploring Linear Relationships - The Detention Buy-Out  
 Using iPads in Math as a Tool for Problem Solving

Real World Trigonometry  
[tapintoteenminds.com/trigonometry](http://tapintoteenminds.com/trigonometry)

Real World Trigonometry - Primary Trigonometric Ratios

Finding Height Given a Side and Angle

The following lesson provides Real World Math Problems that was created with the Foundations of Mathematics (FOM) Grade 10 Applied course in mind. Teachers from Ontario schools as well as schools worldwide are welcome to use this lesson and series of videos in their classrooms to engage their students with a real world application using the Primary Trigonometric Ratios (SOH CAH TOA) to find height given a side and an angle. Throughout the lesson, students are asked to determine how tall a student is, to estimate the height of a support pole in the main hallway of Tecumseh Vista Academy K-12 School and then finally, calculate the actual height using prior knowledge from our Similar Triangles and Trigonometry unit.

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**Learn How to Use iPads in Your Classroom**  
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[www.tapintoteenminds.com](http://www.tapintoteenminds.com)

Whether you have one iPad or a class set, our blog has tutorials to help you along!

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