

Interactive Board for under \$100 using Wii remote

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Why have an Interactive Board?

- ▶ An Interactive Board allows the teacher to be at the screen instead of tied to the computer.
- ▶ Students can be asked to go to the board and be active learners.
- ▶ There are many free lesson plans on the web that interact students with learning using an interactive board.

6-4 Bar Graphs

Try This: Example 2

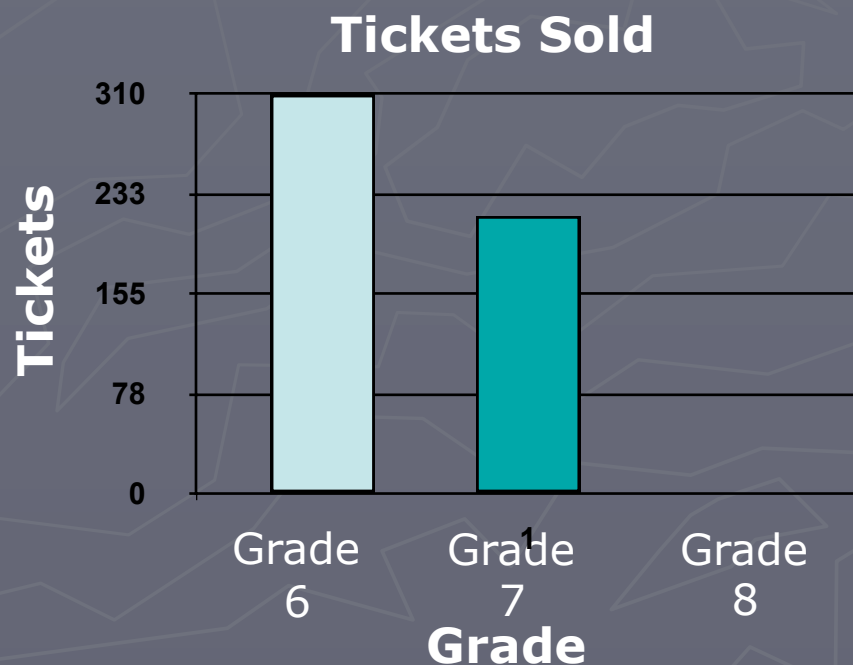
Use the given data to make a bar graph.

Step 1: Find an appropriate scale and interval. The scale must include all of the data values. The interval separates the scale into equal parts.

Step 2: Use the data to determine the lengths of the bars. Draw bars of equal width. The bars cannot touch.

Step 3: Title the graph and label the axes.

Tickets Sold		
Grade 6	Grade 7	Grade 8
310	215	285



What is the cost of most Interactive White Boards?

- ▶ Interactive boards usually start around \$2200.

What you need for a \$100 Interactive WiiBoard

Wii remote	\$40
Infrared pen	\$18
Bluetooth	\$10
USB power cable	\$12
Versiclamp	\$10
Mini tripod	\$10
Pentabulous software	Free (control screen only)
Linktivity Software	Free drawing and Pres tool
Total \$100	

What are the advantages/disadvantages of more expensive Interactive Boards?

ADVANTAGES	DISADVANTAGES
Tech support	12x cost of WiiBoard
Software (Promethean)	Calibration
Can use fingers on smart boards	Replacement/service cost
Keyboard	Most school districts are unable to afford this technology.

What are the advantages/disadvantages of a Wii Interactive Board?

ADVANTAGES	DISADVANTAGES
Cost	Pens need batteries
Easy to set up	No keyboard function from board
Very mobile (fits in your laptop bag)	No curriculum included (there is free curriculum out there).
95% of the capabilities with 1/12 the cost	Drawing (if using a projector with low resolution)
Cheap parts to replace	Not obstructing the Wii infrared camera takes getting use to.

Where to get equipment

- ▶ Walmart- Get your wiimotes at walmart.
- ▶ www.penteractive.us (get your tripod, versaclamp, mini triopod, and li-ion battery usb charger and 2.0 pen or pointer pen, don't get the \$10 dollar pen)
- ▶ <http://www.irgreat.com/irpens.htm> (good IR pen)
- ▶ www.wiiteachers.com/ (for equipment & software, good prices as well. Pens are good, but don't get the \$10 dollar pen)

Where to get software.

- ▶ <http://penteractive.us/pentabulous/> (free connectivity software)
- ▶ http://penteractive.us/?page_id=622 (Linktivity Presenter software to use in conjunction with pentabulous PC only)
- ▶ www.wiiteachers.com/ (for equipment & software, good prices as well. Pens are good)
- ▶ www.uweschmidt.org/wiimote-whiteboard (for free mac version of software)
- ▶ www.ted.com/talks/johnny_lee_demos_wii_remote_hacks.html (demo video)
- ▶ <http://www.smoothboard.net/> Smoothboard is a program for Windows users that connects the wii remote and gives you presentation tools in one package, but it costs \$29.99. You can use Pentabulous and Linktivity for free (see above), and get pretty⁹ much the same result.

Resources

- ▶ [Active inspire](#) - Free software for utilizing flipshcarts created by other teachers for promethean boards. Works great with your WiiBoard
- ▶ www.prometheanplanet.com (free online lessons that utilize any brand of interactive board)
- ▶ <http://jc-schools.net/tutorials/interactive.htm> (more interactive lessons/websites)
- ▶ <http://web.mac.com/carpentersms/hallk/Wii.html> My website with links, directions, troubleshooting, and where to get software.
- ▶ www.boonjin.com/smoothboard/index.php?title=Connect_the_Wiimote (Directions for connecting bluetooth to Wii remote)

Training/Resources

- ▶ I will be creating training/promo videos soon.
- ▶ Check out my website for wii resources including: software, curriculum, interactive websites, interactive lesson links, & where to purchase equipment.
<http://web.mac.com/carpentersms/hallk/Home.html>
(Click on wii resources)

XGA projector is recommended

- ▶ XGA refers to a resolution of 1024x768
- ▶ VGA or SVGA has a lower resolution (800x600) which, in my test, can effect drawing accuracy (when screen size is larger. Also, the Linktivity buttons are harder to read with a VGA projector. **I was able to draw accurately with the projector about 7ft away from the white board on my old VGA projector. (a change from what I said at the principals meeting). Also, the closer the wii remote is to the screen, the better the accuracy.**

I recommend two projectors: (for their resolution and lumens or brightness)

Better- Sanyo PLC W200 \$495 on B&H Photo (They will email you that price)

<http://www.bhphotovideo.com/c/search?Ntt=sanyo++plc+xw200&N=0&InitialSearch=yes>

Great resolution and Lumens (brightness) for the price. Cons: Bulb life is half that of the Epson EX51, but costs about \$40 less to replace than that of Epson

Best- EPSON EX51 \$599 on Amazon or OfficeMax

<http://www.amazon.com/Epson-V11H311120-EX51-Multimedia-Projector/dp/B002OEBMS4>

pros: double the bulb life of the Sanyo above. Uses a USB cable to connect instead of VGA which means no complicated keyboard buttons to hit to get it to show up correctly (does have old VGA connection as well). **Disclaimer: I have not tested this one**