

## Graphing Student Heights: Lessons with *The Graph Club*

Target Audience:	K-1 whole group, 2-5 independently
Equipment/Software Needed:	Projector, demonstration computer, <i>The Graph Club</i> , student computers if needing individual work (laptop cart would work well)
Approximate Length of Lesson/Project:	2 days (1 day in class; 1 day in computer lab or with laptop cart)
Learning Objectives:	Students will measure their classmates' heights in inches and/or centimeters. Students will graph the data collected from their measurements. Students will use technology in the classroom/lab setting to share their learning.
NETS for Students:	<input type="checkbox"/> NETS 1: Creativity and Innovation <input checked="" type="checkbox"/> NETS 2: Communication and Collaboration <input type="checkbox"/> NETS 3: Research and Information Fluency <input checked="" type="checkbox"/> NETS 4: Critical Thinking, Problem-Solving, & Decision-Making <input type="checkbox"/> NETS 5: Digital Citizenship <input checked="" type="checkbox"/> NETS 6: Technology Operations and Concepts
EALRs (check any box that applies for this lesson or series of lessons)	<input type="checkbox"/> Communication <input type="checkbox"/> Reading <input checked="" type="checkbox"/> Writing <input type="checkbox"/> Mathematics <input checked="" type="checkbox"/> Science <input checked="" type="checkbox"/> Technology
Educational Technology Standards (OSPI)	GLE 1.1.1 Generate ideas and create original works for personal and group expression using a variety of digital tools. GLE 1.1.2 Use models and simulations to explore systems, identify trends, and forecast possibilities. GLE 1.3.3 Analyze, synthesize and ethically use information to develop a solution, make informed decisions and report results.

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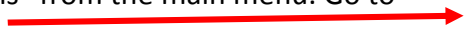




## The Lessons/Activities:

### *Prior Instruction:*

Day 1: In the classroom, students will measure and record the height for each student in the class or in a selected group. Determine the unit of measurement: inches or centimeters.

### *Lesson/Project Sequence:*

Day 2: Use *The Graph Club* to share the results of your height measurements.

- Select “Create Graphs” from the main menu. Go to “Table” graph view. 
- Click the blue “circle & plus” to change the symbols. Select the “People” category, and choose a symbol for each person in the graphing group (up to twelve students for one graph set). Click “OK” to close that window. 
- Label each symbol with a student’s name on the left.
- Enter the measurement data for each student in the group.
- Using the notebook, type questions and answers related to the graph such as the following: 
  1. Who is the tallest in this group of student?
  2. Which students (if any) have the same height?
- Title your graph set and save, print, or create PDF for sharing on a SWIFT page.

## Differentiating the Activities:

- For students with beginning measurement skills, partner students to measure each other, collecting data for just the pair of them.
- For students with developing measurement skills, group four or five students to collect measurements for the group.
- For primary students, enter the data whole-class for up to twelve students at a time (the most *The Graph Club* will allow for one graph set). Students share their measurement data verbally while you enter the data into the graph. Illustrate the process with your teacher computer and digital projector.
- Consider grouping your data by boys or girls.