

Body Length Measuring Experiment

Objectives

- Students will make hypothesis about the lengths of their bodies.
- Students will use centimeters to measure their bodies.
- Students will collect data using a table in AppleWorks.
- Students will create a bar graph in AppleWorks.
- Students write a paragraph that describes the results and conclusions of the experiment.

Procedure

- Have students help each other measure different body parts of your choice. Make sure to measure the length of their entire bodies.
- Have both students will enter their data into the same AppleWorks spreadsheet.
- Then, have students make bar graphs that display their data.
- Have students write a result paragraph that explains the data that was collected.
- Then, have students write a conclusion paragraph that will describe the relationship (or lack of one) between body part length and the length of the entire body. Students will use their data to support their conclusions.

NETS Profiles for Technology Literate Students

- Use keyboards and other common input and output devices (including adaptive devices when necessary) efficiently and effectively.
- Use technology tools (e.g., multimedia authoring, presentation, Web tools, digital cameras, scanners) for individual and collaborative writing, communication, and publishing activities to create knowledge products for audiences inside and outside the classroom.

Materials

- AppleWorks or a spreadsheet program
- Meters Sticks

Alternatives/Extensions

- Have students write a paragraph comparing their results to their partner's results.

Name _____

Body Measuring Experiment Directions

1. Write down how long (in centimeters) you think each of your body parts will be in the spaces below. (These are your hypotheses.)

height _____ cm

foot _____ cm

head _____ cm

hand _____ cm

leg _____ cm

arm _____ cm

2. Get a yardstick and a computer with your partner.

3. File share to get the file BodyMeasuring.cwk from Mrs. Gano's computer.

4. Open the file, and follow the directions inside it.

5. Write a paragraph (on paper or type it in AppleWorks) telling what you found out from your experiment. (These are your conclusions.) You might want to say how close your predictions were to your real measurements, how big one body part was compared to another, or how your measurements were alike or different from your partners.

6. If you finish early, you can make your graph colorful. You can also measure circumferences of body parts (like your head or your waist) and put those in an AppleWorks spreadsheet.