



MathPacks Tips for Chaperones

Measuring Growth provides student problem-solving activities.

Student jobs:

- Think about and discuss solving the measurement problem with each other.
- Develop a strategy with their group.
- Choose the appropriate tools.
- Compare their answers with other groups.
- Reflect: “How reasonable is my answer?”

Your job:

Ask:

- “Does it matter where you place your measuring instrument?”
- “What units are you using?”
- “Are some tools better than others for this task?”

Encourage:

- “Good thinking.”
- “How did you figure that out?”
- “Your group is really working well together.”
- “Are all of these words familiar?”
- “What part don’t you understand?”

The Toolkit Backpacks

3 to 4 students will use each backpack. Ask your group to look through the backpack to find all of the materials:

- calculator
- pencil
- clipboard
- toolkit bag with tape measures, rulers, calipers, hand lens
- laminated maps
- vinyl envelope with a cast of a baby *Apatosaurus* femur and a specimen description
- task badges—4 task badges in each backpack

Task Badges

The task assignments are LEADERS for the tasks; students do not accomplish the task alone. Students should switch roles when heading to a new gallery.

• Recorder

Read directions and record data on the teacher-provided pages.

• Equipment Handler

Choose appropriate materials from the backpack

• Measurement Master

Take the lead in deciding how to measure and leading the measurements

- If there are 4 in a group, one person will act as the **Location Expert/Navigator** and use the map to locate the spot for the activity.

If there are too many students already working at an exhibit, allow your group to explore the gallery until there is space to work. Then, ask the Recorder to read the museum page to the rest of the group. Students may explore the gallery if they finish quickly.

