

Guide Map: Problem Handouts



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Guide Map

Problem Statement

Problem:

A new student has just entered the university. This student is over 6 feet tall, blind, and navigates with the aid of a cane. The new student insists on learning her new surroundings without the help of a guide. The hallways are no problem, but some portions of the campus grounds present hazards. Make a map that would allow the new student to navigate these sections safely.

Questions and Activities:

1. Hypothesize about how you make a map that a blind person can use.
2. Choose what your group needs to map and then justify each choice. Be prepared to discuss your justifications.
3. Decide what kind of data you need to measure to produce a map. Then choose the equipment your group needs to get the data and produce a map. Explain why and how you will use the equipment.
4. Map the selected area. Keep a record of whatever data you collect.
5. Produce a map. This map does not have to be readable by a blind person (Note: This is a problem all its own), but it does need to contain information useful to a blind person.
6. How would you evaluate whether the map is successful? Explain your conclusions and be ready for discussion.