

69. Measurements

Classroom Activity: To show the importance of measurements and to introduce some tools and methods which are outside the experience of most students.

This task is categorized as "OTHER". The emphasis is on mathematics and there are no

explicit science and technology expectations in the revised curriculum.

Assessment Categories:

- Thinking and Investigation
- Communication

Type of Activity: Classroom

Planning Time: 4 hours

Time needed to complete the task: 1 hour

Materials/Resources for teachers:

Large world map

World globe

Alarm clock or mechanical timer

String and weight (simple pendulum)

Simple balance (stick, string and plastic cups)

Dial calipers or micrometer

Oscilloscope

Flashlight battery

Signal generator amplifier and speaker

Activity Description:

For a copy of the presentation, please visit www.eir.ca or contact the EIR Program Office.

Tips:

If the class is divided into groups, it's a good idea to let the teacher divide the class - some students don't work well together, and the teacher knows which ones they are.

The material on navigation and on Harrison came from <http://rubens.anu.edu.au/student.projects97/naval/> Other instruments that can be used includes theodolites, levels,



and more modern instruments used in surveying.

Another great measurement story is William Everest's Survey of India.