



ERATOSTHENES EXPERIMENT

19-20.03.2015

+SOLAR ECLIPSE 20.03.2015

STUDENT INFO

All info should be provided **in English**. Please use **CAPITAL LETTERS**

Country:

City:

Name the City e.g. **ATHENS**

School:

School Name e.g. **2ND HIGH SCHOOL OF ATHENS**

Teacher:

Teachers Name e.g. **GEORGE PAPPAS**

Student:

This ID is unique for every student and will be used in the pre- and post-tests. It consists of the day of the month the student was born, the first two letters of the student's Name and the first three letters of his/her Surname. For the student YANNIS DOUMAS born on the 14th of a specific month the ID would be: **14YADOU**

Test:

Pre-test or Post-test

QUESTIONNAIRE

What is a local noon? How does it change over the year?

- The local noon is at 12.00 local time. It doesn't change with respect to the location of a place.
- The local noon is the mid-time between sunrise and sunset. As the duration of the day grows the local noon shifts to later hours.

Eratosthenes assumed that sun rays are parallel. However, when we draw the sun we present it as a small yellow disk with divergent rays coming out of it. Which of the following is correct?

- The rays are parallel, because the sun is very far from earth
- The rays are divergent because the sun is considered as a point source

In the activity you have to fix the rod vertically to the ground.

If the location you choose to fix the rod is vertically on the slope of a hill, will your measurement be accurate?

- Yes, because the rod is vertical to the ground.
- No, because the axis of the rod must point to the center of the earth.