

Earth Science Challenge:

Determine the Mass of the Granite School Sign

10 Extra-Credit Points

(An additional 10 points will be possible if you create a video or web page displaying your process and solution.)

Directions: You are to solve the following problem using the scientific method. You must use all necessary components of the scientific method and create a formal LABORATORY write-up of this in paragraph form utilizing graphics, photos, calculations, and research to illustrate and communicate your information. The write up must be computer generated, neat, and contain all headings with a font size of 12 points. (the same size as the letters on this sheet)

This task must be completed on your own time. You are allowed to use any means available to you. However, you are not allowed to deface, destroy or move the sign in any way.

If you work with another student, your report, data, calculations, and solutions should be uniquely yours.
No one should have the same **ANYTHING** if you do your own work!
Web pages and Videos must also be completed independently.

DUE DATE: The 1st school day after Halloween

SCIENTIFIC METHOD

1. **PROBLEM:** What is the exact mass of the granite school sign in kilograms (kg) and pounds (lbs)
2. Research problem – Write all of the necessary background
3. Form a hypothesis – An educated guess based on rough measurements and calculations
4. Create/conduct step-by-step procedures to solve the problem
5. Collect, calculate, and analyze data
6. Derive conclusion/answer (with correct units)