

“Just Me and My Shadow” Data Log

Follow these steps to fill out your Data Log:

1. Stand your unsharpened #2 pencil on its unsharpened outside in the sunlight where you can easily measure its shadow (it may be helpful to work in pairs)
2. Record the clock time and the length of the shadow in either English or metric (S.I.) units, as directed by your teacher.
3. Using the conversion formula below, convert from English to S.I. units or from S.I. to English units, as appropriate.
4. On the graph paper, plot the clock time and **both** the English and S.I. shadow measurements.

Clock Time	Shadow Length (English)	Shadow Length (S.I.)

Conversions:

English to S.I.: centimeters = inches x 2.54

S.I. to English: inches = centimeters / 2.54

