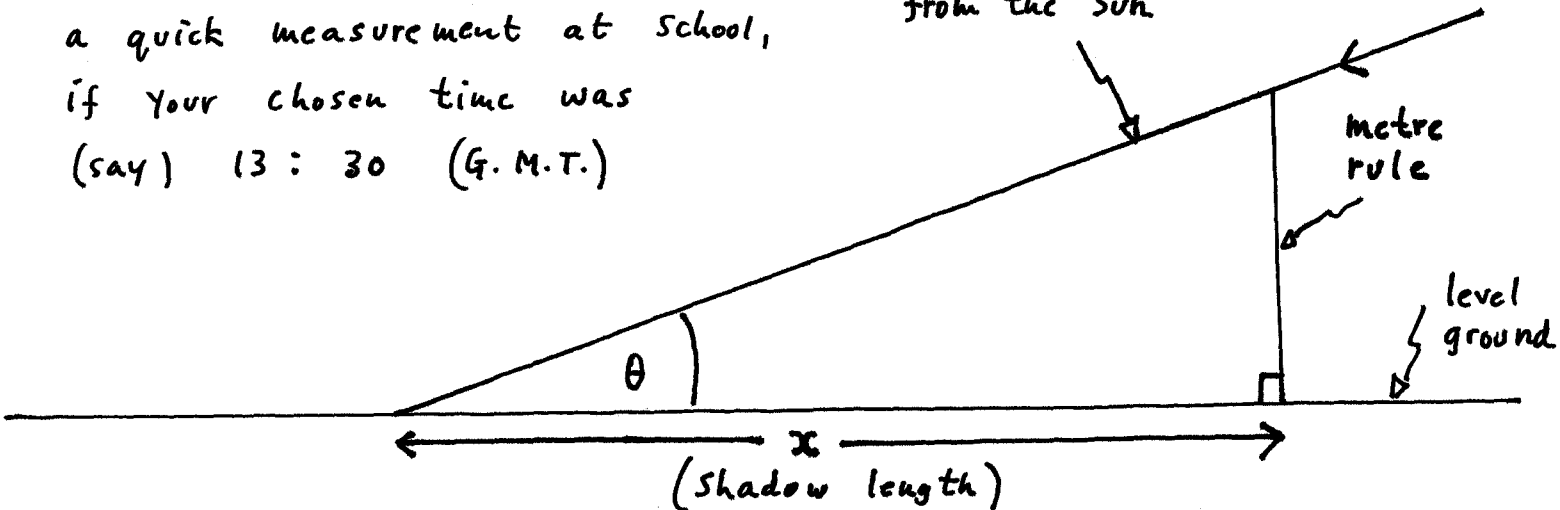


Experiment to investigate quantitatively how the angular height of the Sun above the horizon varies throughout the year

Provided the time interval is sufficiently extended, this investigation would be eminently suitable as one of your pieces of Coursework.

You could always carry out a quick measurement at school, if your chosen time was (say) 13:30 (G.M.T.)

Direction of light from the Sun



Observations must be made at the same G.M.T. time on every occasion.

From the above,

$$\tan \theta = \frac{1\text{m}}{x(\text{m})} \quad \text{Hence, } \theta = \dots$$

Results

Time (G.M.T.)	Date	$x(\text{m})$	$\tan \theta$	$(\theta^\circ)$
	Throughout the year			

