

- 1 (a) Table 1.1 lists some SI quantities. Complete the table by indicating with a tick (\checkmark) which rows are SI base quantities.

Table 1.1

quantity	base quantity
current	
energy	
force	
mass	

[1]

- (b) Use the definition of power to determine its SI base units.

SI base units [2]

- (c) A light meter is used to measure the intensity of light in a classroom. Daylight is incident normally on the sensor of the meter. The sensor has an area of 2.2cm^2 . The reading on the meter is 950W m^{-2} .

Calculate the power of the daylight incident on the sensor.

power = W [3]

[Total: 6]