Units, measurements and standard form quiz

1   Rewrite the following using prefixes:

12000 g	12kg	2
0.005m	5mm	2
0.000087V	87μV	2

2   What do the following units represent?

gcm^{-3}	grams per centimetre cubed	2
Jkg^{-1}	joules per kilogram	2
$mm^3 s^{-1}$	millimetres cubed per second	2
$kgm^{-2}y^{-1}$	kilograms per metre squared per year	2

3   Rewrite the following in standard form:

1942kg	$1.942 \times 10^3 kg$	2
0.007m	$7 \times 10^{-3} m$	2
0.000002A	$2 \times 10^{-6} A$	2
0.034s	$3.4 \times 10^{-2} s$	2

14.5MJ	$1.45 \times 10^4 MJ$	2
178846km	$1.78846 \times 10^8 m$	2
440mm	$4.40 \times 10^{-1} m$	2

4   Find values for:

Wavelength of red light	630-740nm	2
Diameter of a nucleus	6-10μm	2
Mass of the earth	5.9742×10^{24} kg	2