$\label{eq:Quiz 1.3} \textbf{-Heat, Temperature, and Dimensional Analysis}$

Name:				
Question 1				
Convert the value $80.0 \frac{mi}{\hbar}$	$\frac{les}{l}$ to units of m/s			
Question 2				
Light travels at a speed of 2	$0.998 \times 10^8 m/s$			
\circ How many s does it ta	ıke for light to travel	l from the surface of the earth t	to the moon and back ($478,000mile$	(s)?
 How far does light tra 	avel in one minute?			
Question 3				
A cup of water is about 237	g. How much energ	gy is required to bring one cup	of water from $25.0^{\circ}C$ to $100.0^{\circ}C$?	
Question 4				
An adult male should const would the water temperatu		al each day. If $2500Cal$ are ac	dded to $200.0lb$ of water, how much	
Question 5				
Convert the following temp			104 77 77	
$25.0^{\circ}C$	376.5 K	$-12.3^{\circ}C$	184.7~K	
Question 6				
Pure gold has a density of How much should you exp	$19.3 rac{g}{cm^3}$. A small ect this sample to w	l sample of pure gold measure veigh?	es $3.5 \ mm$ by $7.6 \ mm$ by $5.5 \ mm$.	

Caged Bird

By Maya Angelou

A free bird leaps on the back of the wind and floats downstream till the current ends and dips his wing in the orange sun rays and dares to claim the sky.

But a bird that stalks down his narrow cage can seldom see through his bars of rage his wings are clipped and his feet are tied so he opens his throat to sing.

The caged bird sings with a fearful trill of things unknown but longed for still and his tune is heard on the distant hill for the caged bird sings of freedom.

The free bird thinks of another breeze and the trade winds soft through the sighing trees and the fat worms waiting on a dawn bright lawn and he names the sky his own

But a caged bird stands on the grave of dreams his shadow shouts on a nightmare scream his wings are clipped and his feet are tied so he opens his throat to sing.

The caged bird sings with a fearful trill of things unknown but longed for still and his tune is heard on the distant hill for the caged bird sings of freedom.