

**The Physics of Energy, Explained Simply  
&  
The Physics of Energy For Beginners**

**Chemical Energy Questions - Answers**

Equation:  **$Q = mC$**

$Q$  = Chemical Energy Released (J),  $m$  = Mass (kg),

$C$  = Specific Energy (J/kg)

1.  $Q = 2 \text{ kg} \times 45000 \text{ J/kg} = 90000 \text{ J}$
2.  $Q = 1.5 \text{ kg} \times 18000 \text{ J/kg} = 27000.0 \text{ J}$
3.  $Q = 3 \text{ kg} \times 25000 \text{ J/kg} = 75000 \text{ J}$
4.  $Q = 0.8 \text{ kg} \times 30000 \text{ J/kg} = 24000.0 \text{ J}$
5.  $Q = 5 \text{ kg} \times 20000 \text{ J/kg} = 100000 \text{ J}$
6.  $Q = 4.5 \text{ kg} \times 29000 \text{ J/kg} = 130500.0 \text{ J}$
7.  $Q = 2.2 \text{ kg} \times 15000 \text{ J/kg} = 33000.0 \text{ J}$
8.  $Q = 0.75 \text{ kg} \times 23000 \text{ J/kg} = 17250.0 \text{ J}$
9.  $Q = 6 \text{ kg} \times 42000 \text{ J/kg} = 252000 \text{ J}$
10.  $Q = 1 \text{ kg} \times 37000 \text{ J/kg} = 37000 \text{ J}$

