

Equations and other information you may need:

$$E = mL$$

$$E = mc_p\Delta T$$

Latent heat of fusion, water: 334 J/g

Latent heat of vaporisation, water: 2272 J/g

Specific heat capacity, water: 4.18 J/g/°C

Reactivity series of metals

K	most reactive ↓ least reactive
Na	
Li	
Ca	
Mg	
Al	
Zn	
Fe	
Sn	
Pb	
Cu	
Hg	
Ag	
Au	

SI prefixes

SI prefix	Symbol	Value
giga	G	10^9
mega	M	10^6
kilo	k	10^3
deci	d	10^{-1}
centi	c	10^{-2}
milli	m	10^{-3}
micro	μ	10^{-6}
nano	n	10^{-9}
pico	p	10^{-12}

Solubility Rules

- chlorides, iodides and bromides (soluble except silver, mercury and lead)
- fluorides (soluble except group 2 metals, manganese and lead)
- oxides (*insoluble* except calcium and barium)
- sulfates (soluble except barium, strontium and lead)
- carbonates, phosphates and hydroxides (*insoluble*)
- sulfides (*insoluble* except group 2 metals)