

25g Na_2O_2	1 mole Na_2O_2	126 KJ
	78g Na_2O_2	2 mole Na_2O_2

Nov 6-8:42 AM

⑧ $\frac{2.25\text{ J}}{9^\circ\text{C}}$

Heat Capacity	$\frac{\text{J}}{^\circ\text{C}}$
Sp Ht	$\frac{\text{J}}{\text{g} \cdot ^\circ\text{C}}$
Molar SP. Ht	$\frac{\text{J}}{\text{mole} \cdot ^\circ\text{C}}$

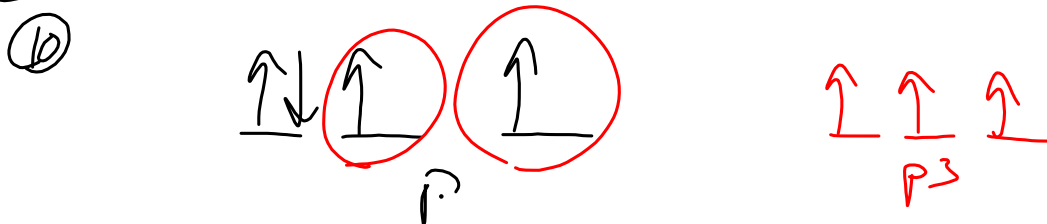
2.25 J	100g C_7H_{16}
9°C	1 mole C_7H_{16}

Nov 6-8:45 AM

$$\begin{aligned}
 \textcircled{1} \quad \Delta H_{\text{rxn}} &= n \sum \Delta H_{\text{prod}} - n \sum \Delta H_{\text{react}} \\
 &= [2(\text{O}_2)] - [2(\text{CO} + \text{O}_2)] \\
 &= [2(-393.5)] - [2(-110.5) + 0] \\
 &= -566 \text{ kJ}
 \end{aligned}$$

Nov 6-8:50 AM

$$\textcircled{12} \quad \text{per } 4, \text{ Gr } 15 \quad \text{As } 4s^2 4p^3$$



$\textcircled{15}$

$$c = f \lambda$$

$$3 \times 10^8 \frac{\text{m}}{\text{sec}} = f (280 \times 10^{-9} \text{ m})$$

Nov 6-8:53 AM

n
 PEL } l
 } azimuthal
 } MAX
 } $n-1$
 Size } $\begin{array}{c|c|c|c} S & P & d & f \\ \hline 0 & 1 & 2 & 3 \end{array}$
 } shape

} M
 } magnetic
 } $-l$ to $+l$
 } orientation
 } in space

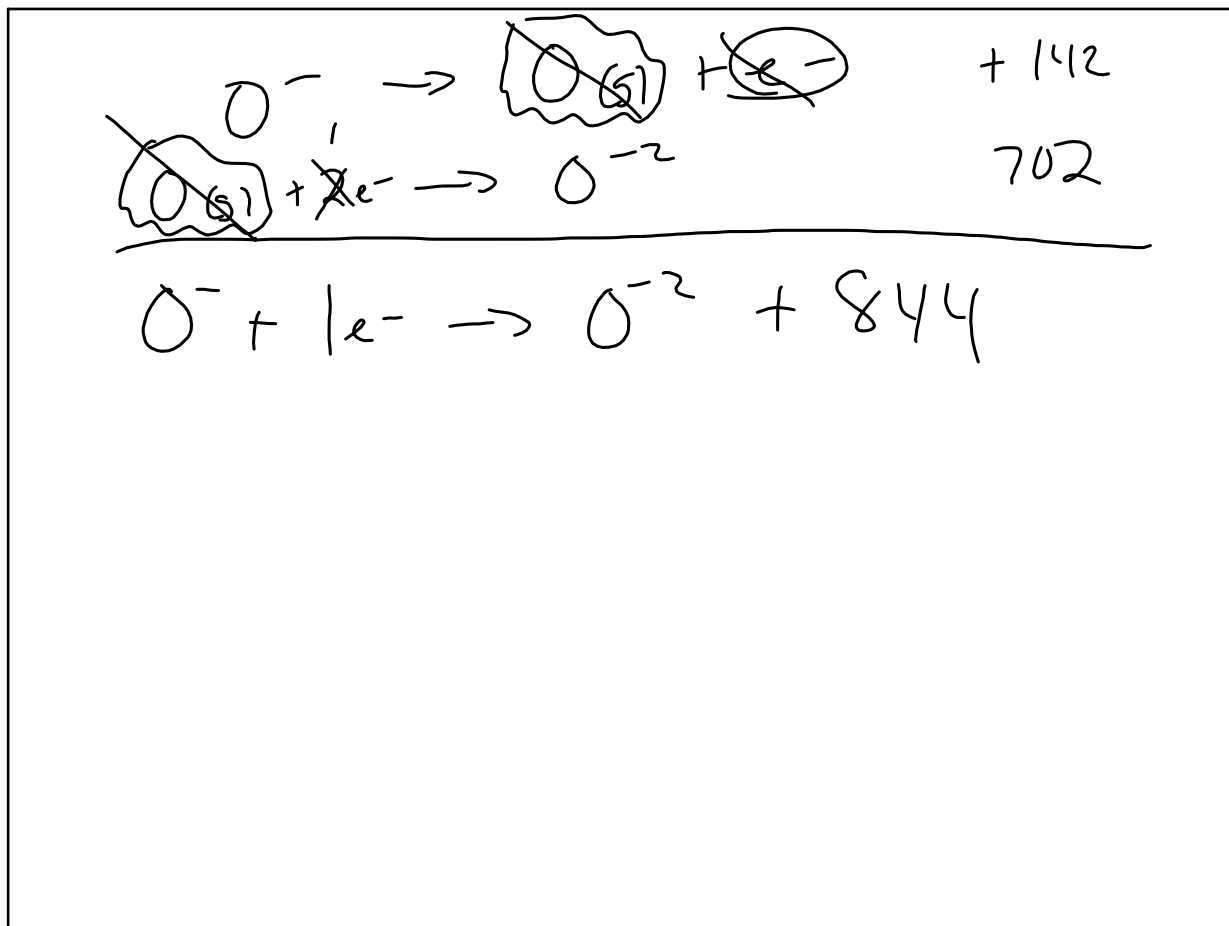
} S
 } $+\frac{1}{2}$
 } $-\frac{1}{2}$
 } Spin

Nov 6-9:02 AM

metal heat lost = water heat gained
 $m_c \Delta T = m_w \Delta T$
 $100(0.448)(100 - T_f) = 50(4.18)(T_f - 20)$

Big # - small #

Nov 6-9:08 AM



Nov 6-9:10 AM