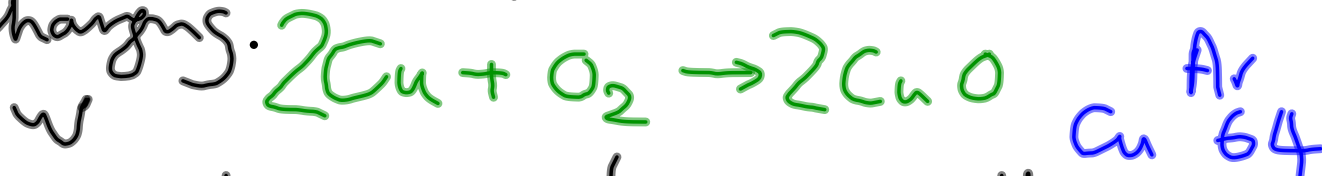


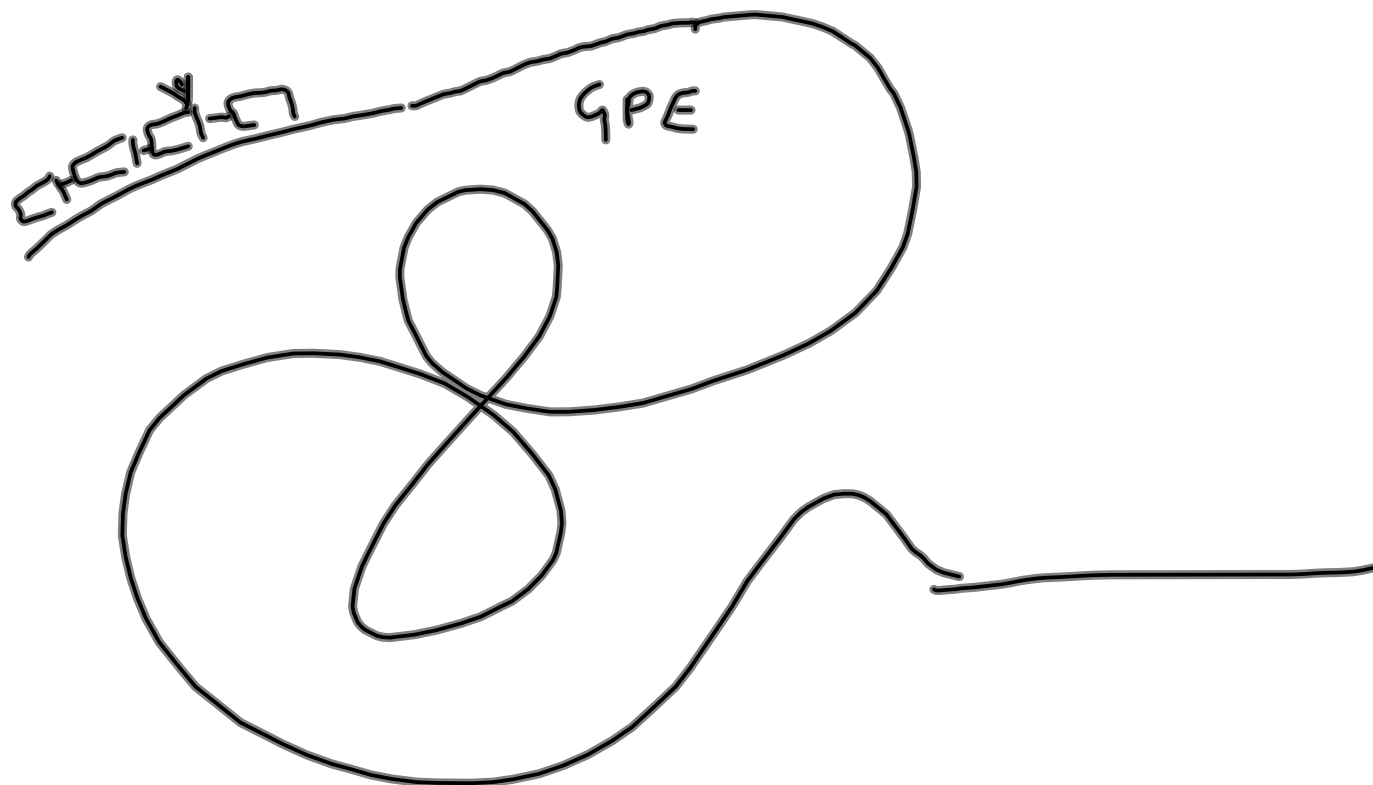
43g of copper is heated strongly in a crucible attached to a bunsen burner, causing it to react with oxygen to form copper oxide (CuO). It is heated until its mass stops changing.

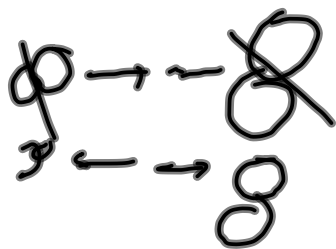
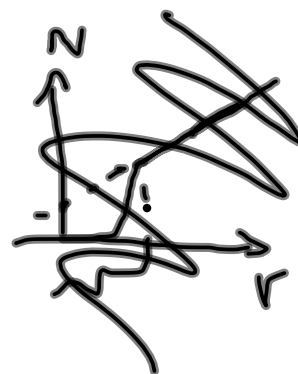
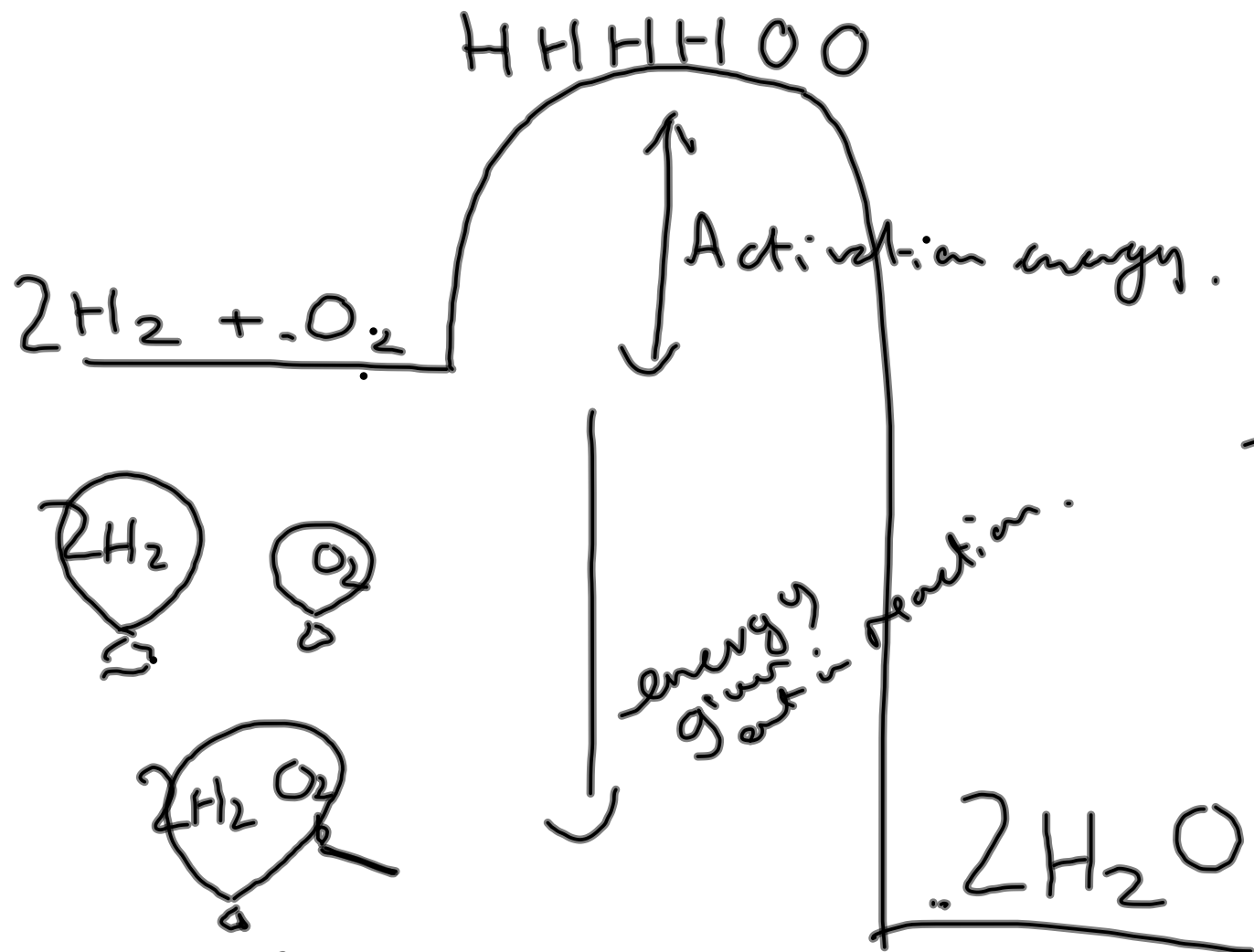


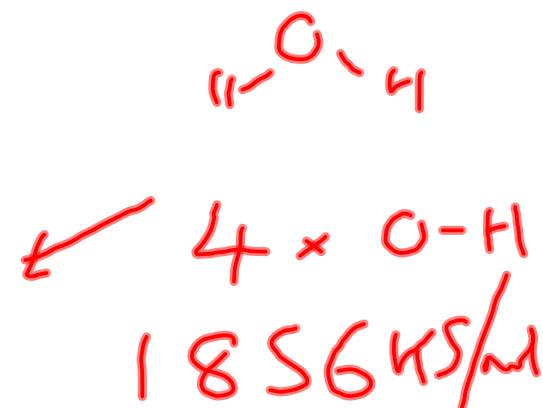
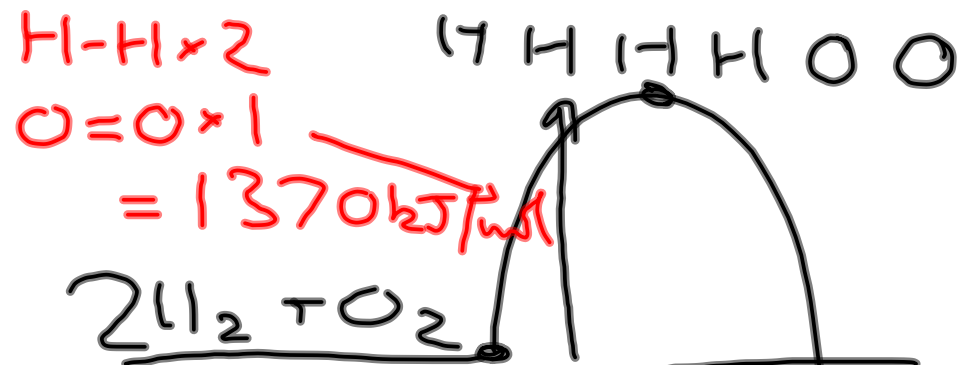
1. What mass of copper oxide is formed? $\text{Moles copper} = \frac{43}{64} = 0.671 \text{ mol}$
2. Why is it heated until mass stops changing? $0.671 \times 80 = 53.7 \text{ g}$

~~53.7g~~

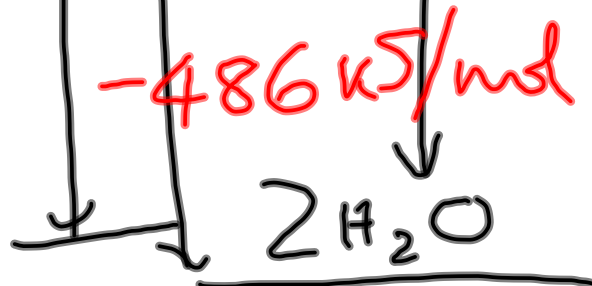
Energy in Chemistry







	kJ/mol
H-O	464
H-H	436
O=O	498





bonds	kJ/mol
$\text{N} \equiv \text{N}$	945
$\text{H}-\text{H}$	436
$\text{N}-\text{H}$	391

