

## Criterion B: Design

GUI Element 1: Program Start: Not doing the intro page as part of the GUI Mockup as that is a copout

# Empirical Formula Solver

Number of Elements:

User enters number here. (Rest of this GUI idea assumes 2 elements)



Update Chart Below  
(Add rows)

Symbol	Percents
O	88.89%
H	11.11%



Calculate Formula

The user enters the number of elements that are in the Formula being calculated and then enters the element symbol, the percents, and then hits the calculate button.

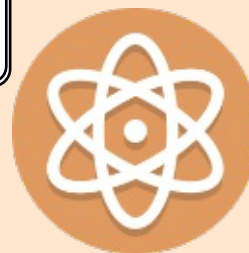
# Empirical Formula Solver

Symbol	Percents	Divide by Molar Mass	New Values	Divide by lowest value	Final Ratio
O	8.89%	/16	5.56	/5.56	1
H	11.11%	/1	11.11	/5.56	2

[Explanation?](#)

The Final Element is H<sub>2</sub>O

Do another Calculation?



The explanation button will lead to a video or description of how the calculations are done and why they work. The "Do another Calculation" will take the viewer back to the GUI Element 1.

# Empirical Formula Solver

Number of Elements:



Update Chart Below  
(Add rows)

Symbol	Percents
Of	88.89%
Hm	11.11%



Calculate Formula  
ERROR: ELEMENTS DO NOT EXIST,  
CHECK SYMBOL!!!!!!!

The user will be prompted to redo the symbols or percents to see if it works