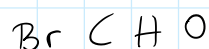
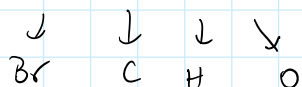


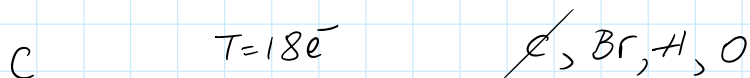
BrCHO



$$T = 7 + 4 + 1 + 6 = 18$$



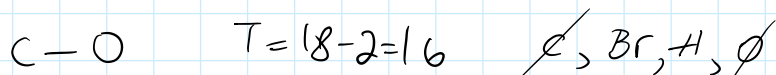
who can make the most bonds? C → goes in the middle



use the next

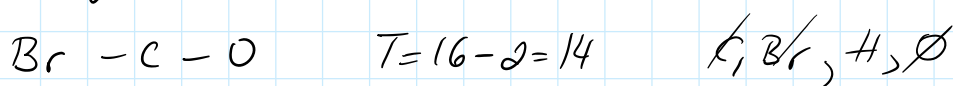
atom w/ most possible

bonds: oxygen



next atom has to be Br

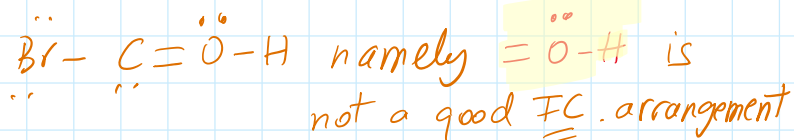
(cannot be H) & will connect to the central atom,
that's exactly what makes it central



The algorithm suggests to attach the H to the O,

this will not work b/c it will lead to an unfavorable

arrangement:

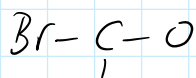


$$\text{b/c } \text{FC}(\text{O}) = 6 - 3 - 2 = +1$$

when the FC-s are unfavorable, it is often the case that better arrangements exist.

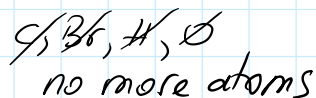
for this reason:

follow the algorithm to connect the H to the central atom as well.



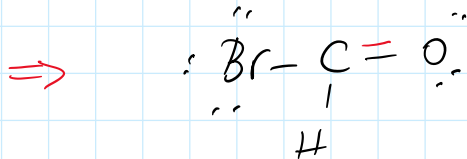
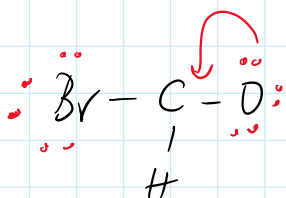
$$T = 14 - 2 = 12e^-$$

~~/~~ Br, H, $\emptyset$
no more atoms

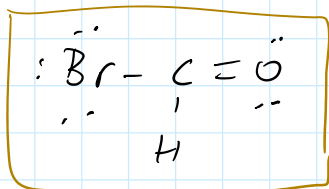

$$\begin{array}{c} \text{Br} - \text{C} - \text{O} \\ | \\ \text{H} \end{array}$$

— 11 —

share 2 more e^- btwn O & C so C can hv an 8- e^- .



now C has an $\mathcal{S}$ -et, & so does every one of its.



f_c $f_c(c) = 4 - 4 = 0 \checkmark$ perfect

$$FC(0) = 6 - 2 - 4 = 0 \checkmark \text{ perfect}$$

$$\#_c(\text{Br}) = 7 - 1 - 6 = 0 \checkmark_{\text{perfect}}$$

Total TC = $0 + 0 + 0 = 0$ - the original formula was

+ C(1) D(1) / - 1 1 0 1 1 1 1 1 1 1

Total FC = $0 + 0 + 0 = 0$ ← the original formula was indeed neutral so this is a match.

The dot version of Lewis

