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Diatomics

- elements that never exist by themselves
- bond to themselves

H, O, F, Br, I, N, Cl

H_2 , O_2 , F_2 , Br_2 , I_2 , N_2 , Cl_2

O_3

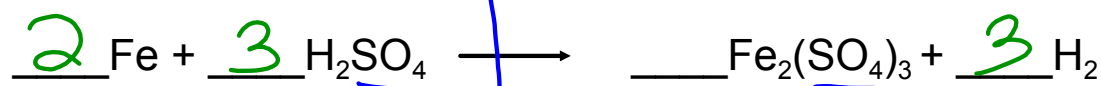
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Balancing Equations Tips and Tricks

1. Save lone elements for last
2. Group polyatomics if they are the same on both sides.
3. When balancing a combustion reaction, balance C first and O last. C, H, O
4. Try to get odd numbers even first.
5. YOU CAN NEVER CHANGE THE SUBSCRIPTS
6. You can only add to the coefficients

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Practice:



$$\text{Fe} = \cancel{X} 2$$

$$\text{H} = \cancel{2} 6$$

$$\text{SO}_4 = \cancel{X} 3$$

$$\text{Fe} = 2$$

$$\text{H} = \cancel{2} 6$$

$$\text{SO}_4 = 3$$

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