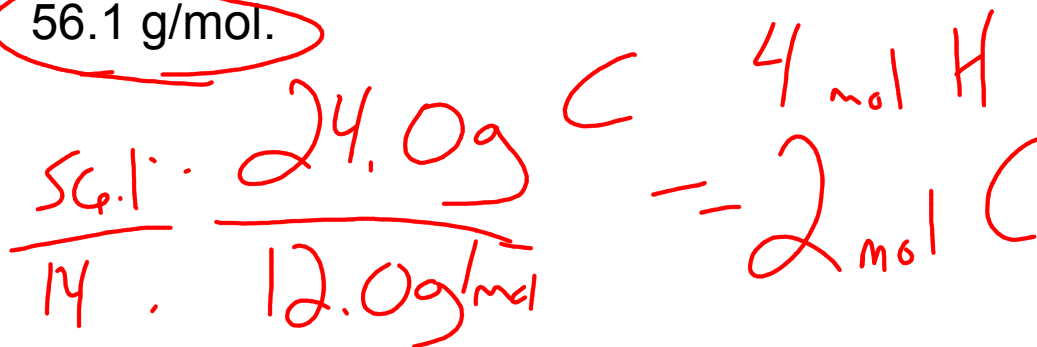


Warm up

Find the molecular formula for a compound consisting of 24.0 grams of carbon, 4.0 grams of hydrogen, and having a molecular mass of 56.1 g/mol.



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Chemical equations must be balanced before you can do anything with them.



Prefixes represent the molar ratios of the compounds in an equation.

You must have the same number of mols of EACH element in order to be balanced.

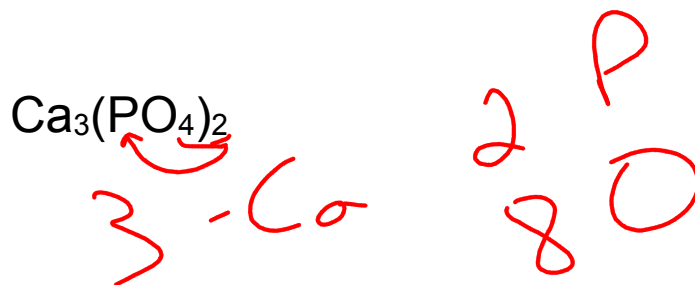
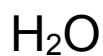
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When counting how many of each element (or polyatomic ion) you have, subscripts apply to what they are connected to.

Coefficients are multipliers of everything in the compound.

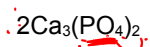
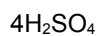
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How many of each element are there?

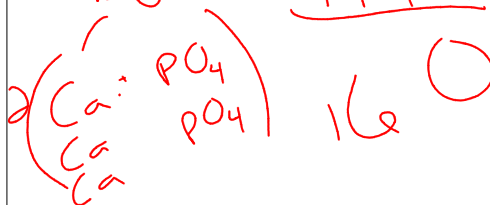


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And now.....

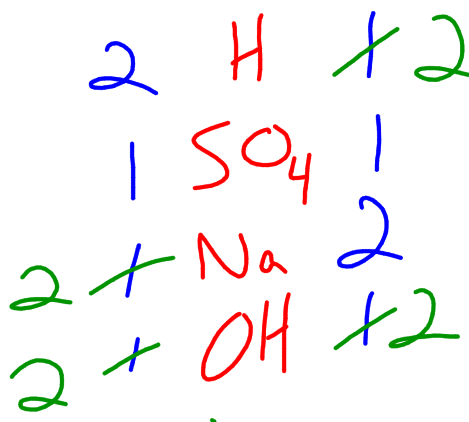
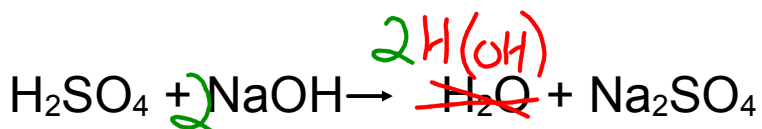


4 phosphates

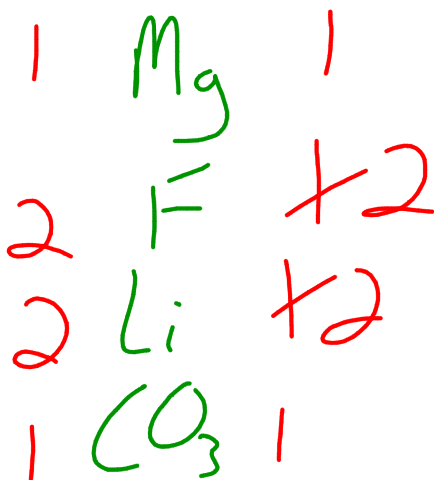
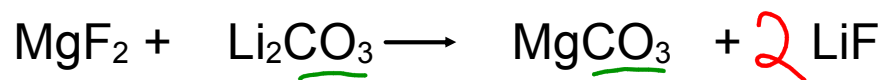


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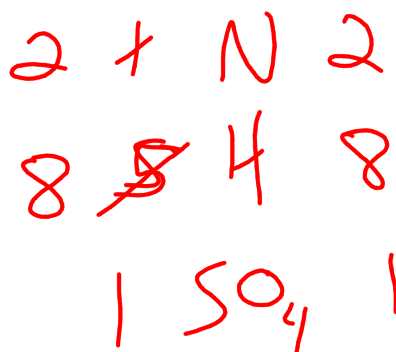
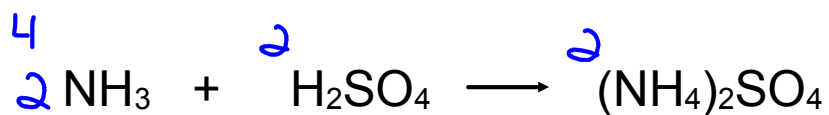
Using a table to balance an equation:



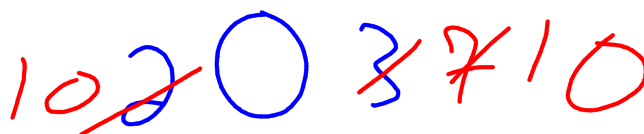
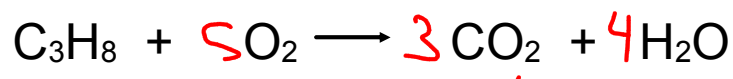
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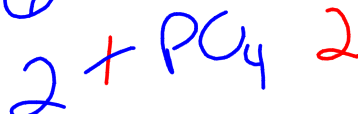
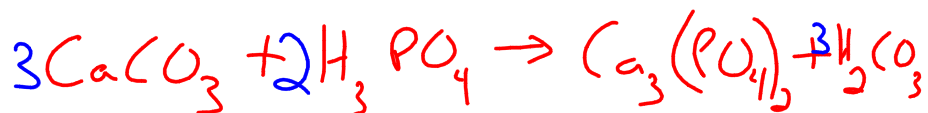


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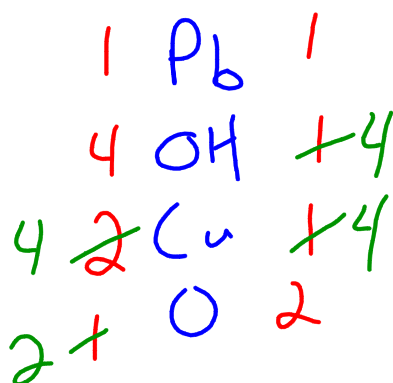
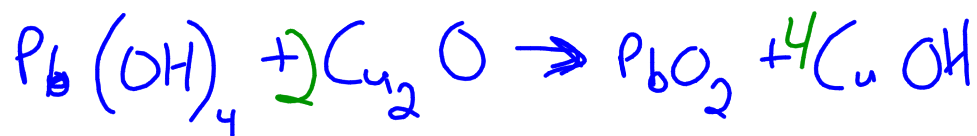
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²⁺Ca²⁺ reacts with ³⁻PO₄³⁻ to yield ³⁻PO₄³⁻ and ²⁺Ca²⁺
 calcium carbonate reacts with hydrogen phosphate to yield calcium phosphate and hydrogen carbonate

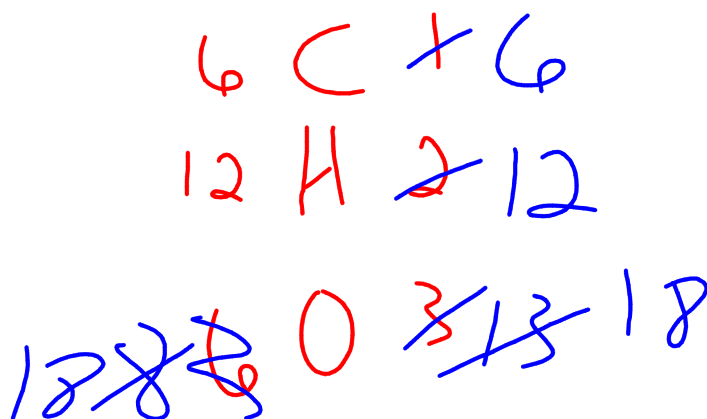
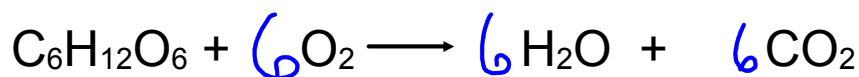


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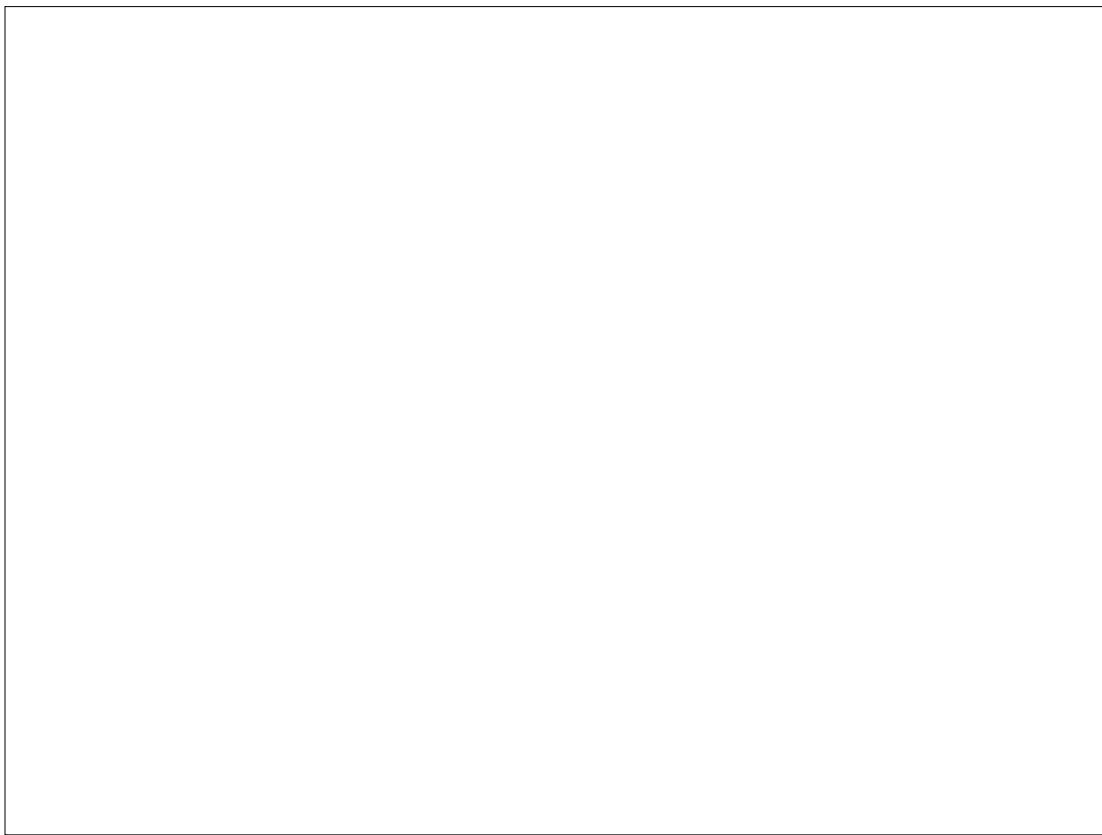
lead ⁺⁴ (iv) ^{OH⁻} hydroxide reacts with copper ⁺¹ (i) ²⁻ oxide which forms lead ⁺⁴ (iv) ²⁻ oxide and copper (i) hydroxide



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Dec 15-8:18 AM



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