

Bell Ringer #39:

Socratic Room Name:
LEVEL70WARRIOR

Chemical Reactions Balancing and Combustion

<http://drmoad.weebly.com/>

Agenda

Bell Ringer

Hand Back Test 6

Test Corrections (15 min)

Combustion Reactions

Demo: Whoosh Bottle

Demo: Methane Bubbles

Balancing Equations Notes

Combustion Worksheet

Exit Ticket

Writing Formulas

⁺¹ potassium ⁻² carbonate



trinitrogen pentoxide



⁺³ iron (III) ⁻¹ nitrate



$$Fe = 1$$

$$N = 3$$

$$O = 9$$

Percent Composition

A 23.4 g sample of an unknown compound of calcium and sulfur contains 10.4 g of sulfur. What is the percent composition of this compound?

$$23.4 - 10.4 = 13.0$$

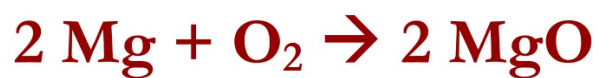
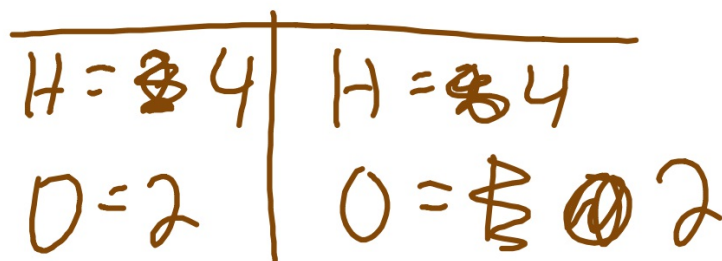
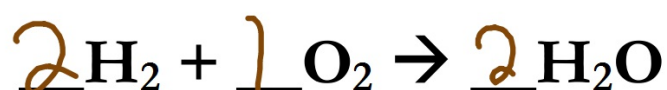
$$\frac{10.4\text{g}}{23.4\text{g}} \times 100 = \% \text{ S}$$

$$\frac{13}{23.4\text{g}} \times 100 = \% \text{ Ca}$$

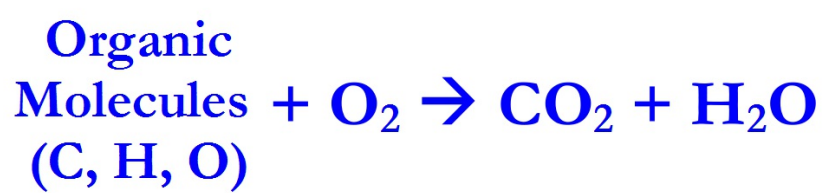
Test Corrections (15 min)

Combustion Reactions

Reactants \rightarrow Products

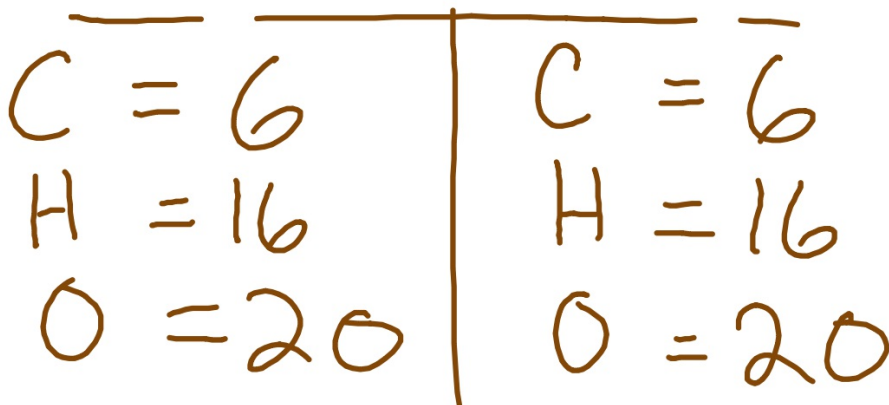
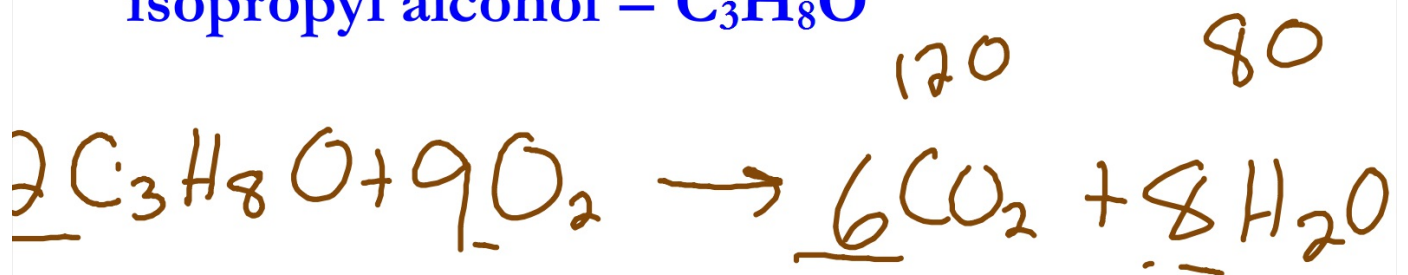


Combustion Reactions



Demo: Whoosh Bottle

isopropyl alcohol = C_3H_8O



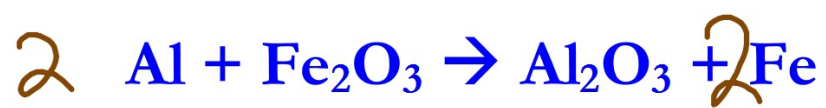
Demo: Methane Bubbles

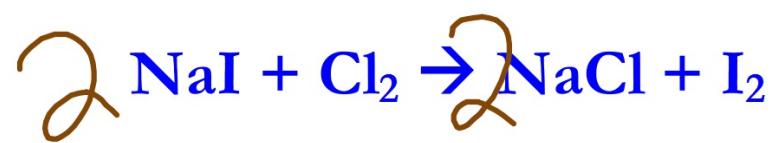
methane = CH_4

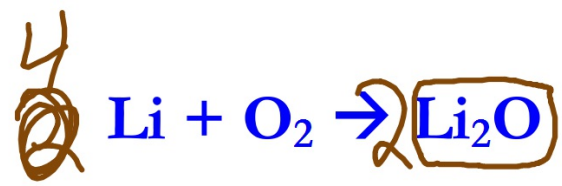


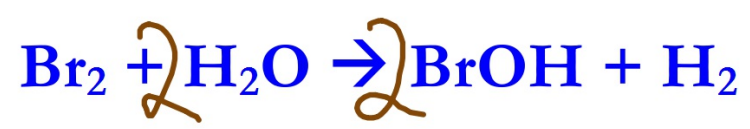
C	1		C	1
H	4		H	2 4
O	2 4		O	2 4

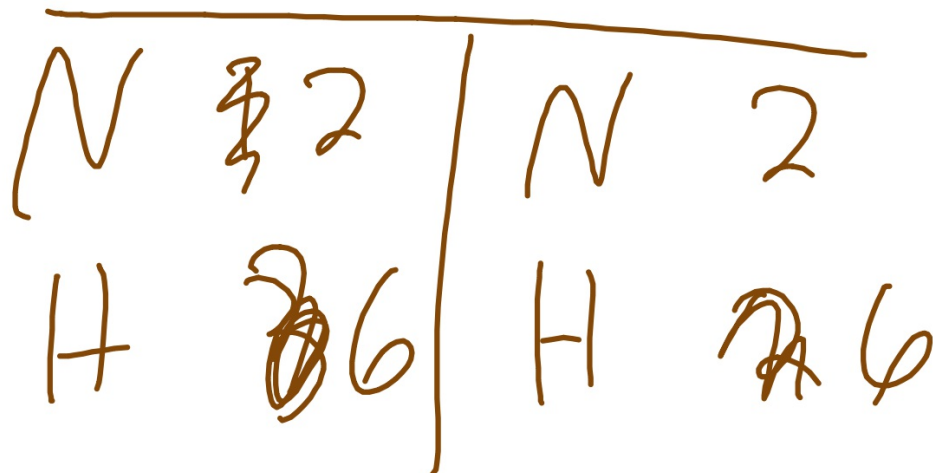
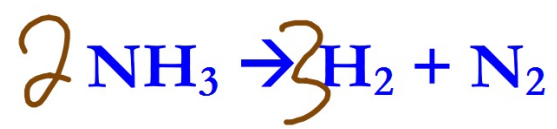
Balancing Equations Notes











Worksheet: Combustion Reactions

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Exit Ticket #39:

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Empirical Formula