

Elements vs Compounds vs Mixtures

Please indicate whether the following is:

- an element
- a compound
- a homo/hetero mixture of 2 or more elements
- a homo/hetero mixture of 2 or more compounds
- a homo/hetero mixture of 2 or more elements and/or compounds

<p>A</p>	<p>B</p>	<p>C</p>
<p>D</p>	<p>E</p>	<p>F</p>

A cpd

B Hetero 2 ele

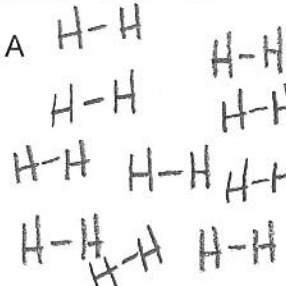
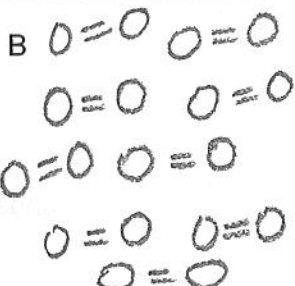
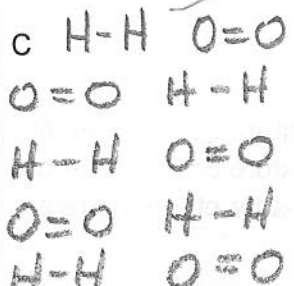
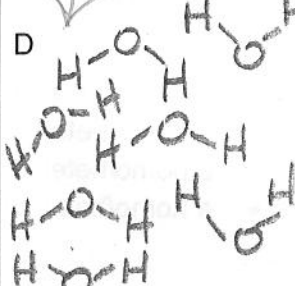
C Homo of 2ele

D Hetero 1ele + 1cpd

E Homo 2 diff cpds

F ele

Explain what the difference is between the following:

<p>A</p> 	<p>B</p> 	<p>C</p> 	<p>D</p> 
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A $H_2(g)$ / element

B $O_2(g)$ = element

C Mixture of 2 ele of $H_2(g)$ & $O_2(g)$

D water = H_2O = cpd.

Questions

1) How did you test for "A" $H_2(g)$
lit splint test for H_2 = "pop" & goes out
flaming
burning

2) How did you test for "B" $O_2(g)$
glowing splint test for O_2 = relights

3) How did you turn C into D? $H_2(g) + O_2(g) \rightarrow H_2O(l)$
lit splint test \Rightarrow explodes balloon.