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19. thermal energy (heat and light)

20. a hydrocarbon is a compound composed of C & H

a) complete or incomplete

b) CO_2 and H_2O

21. a) NO - heat is absorbed not released

b) $2\text{N}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2\text{N}_2\text{O}(\text{g})$ synthesis

22. a) blue flame \rightarrow complete combustion

yellow flame \rightarrow incomplete combustion

b) blue \therefore more heat than light

c) 3.23 blue $\rightarrow \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g})$

3.24 yellow $\rightarrow \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) + \text{C}(\text{s}) + \text{CO}(\text{g})$

23. complete because they are indoors and you wouldn't want to produce carbon monoxide

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