

- 7. (a) The combustion of other elements, besides hydrocarbons, are typically synthesis reactions. For example, the combustion of magnesium forms magnesium oxide and the combustion of carbon forms carbon dioxide.
 - (b) This occurs when a single element reacts with oxygen.

DIFFERENTIATED INSTRUCTION

• Visual and tactile learners may benefit from creating large cards that show generalized and specific equations for combustion. Cards should be made out of sturdy paper. Students can reuse some cards in different equations, For example:



Similar cards can be made for other reactions. Repeat the process, encouraging students to write additional equations in this format.

• Bodily/kinesthetic and visual/spatial learners might benefit from using models to demonstrate combustion reactions.