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Name_____

Seeing the Invisible Worksheet

The reaction taking place in the beaker is:

$$CH_3CO_2H(aq) + NaHCO_3(s) \rightarrow CO_2(g) + NaCH_3CO_2(aq) + H_2O(l)$$

Vinegar *Baking Soda* *Carbon dioxide* *Sodium acetate* *Water*

1. What do the candles need to remain lit?

2. In what order were the candles extinguished?

3. Why were the candles extinguished?

4. Carbon dioxide is soluble in air. Did the carbon dioxide from the reaction mix with the air? Why or why not?

5. Based on your observations, how does the density of the carbon dioxide compare to that of air?

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