Unit 5, Video 2: Chemical Reactions and Balancing

1. True or False: Bonds must be broken and new bonds formed in a chemical reaction.

2. How should water vapor appear in a chemical equation?

3. Use the examples in the video to balance the following equations:

   - $N_2 + H_2 \rightarrow NH_3$

   - $C_3H_8 + O_2 \rightarrow CO_2 + H_2O$

4. True or False: When an element shows up in multiple places on the same side of a chemical equation, you should balance that element first.

5. Fill in the blank: When _____ stay the same on both sides of a reaction, it is simpler to consider them as one particle rather than as individual elements.

6. Use the examples in the video to balance the following equations.

   - $Ca(NO_3)_2 + NaCl \rightarrow NaNO_3 + CaCl_2$

   - $C_2H_6 + O_2 \rightarrow CO_2 + H_2O$

7. True or False: Coefficients should be whole numbers.

https://chemistryismyjam.com/reactions-videos/