

Bond Energy and the Types of Reactions

Bell Ringer Activity – Teacher Edition

Decide if the following statements are true or false. Correct the false statements to make them true.

1. The lower the bond order, the longer the bond length.
2. Bond length is dependent on the level of attraction between the nuclei of the bonding atoms.
3. The greater the bond order, the lower the bond energy.
4. A triple bond will have greater bond energy than a single bond.
5. Energy is released when bonds in reactants break

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Decide if the following statements are true or false. Correct the false statements to make them true.

1. The lower the bond order, the longer the bond length.

True

2. Bond length is dependent on the level of attraction between the nuclei of the bonding atoms.

True

3. The greater the bond order, the lower the bond energy.

False, the greater the bond order, the greater the bond energy.

4. A triple bond will have greater bond energy than a single bond.

True

5. Energy is released when bonds in reactants break

False – energy is released when bonds are formed.