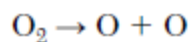


1. Two molecules of HBr collide and then form H₂ and Br₂. During the collision, the bonds in the HBr molecules are

- A) broken as energy is absorbed
- B) broken as energy is released
- C) formed as energy is absorbed
- D) formed as energy is release

2. Given the balanced equation representing a reaction:



What occurs during this reaction?

- A) Energy is absorbed as bonds are broken.
- B) Energy is absorbed as bonds are formed.
- C) Energy is released as bonds are broken.
- D) Energy is released as bonds are formed.

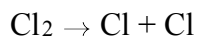
3. To break a chemical bond, energy must be

- A) absorbed
- B) destroyed
- C) produced
- D) released

4. What occurs in order to break the bond in a Cl₂ molecule?

- A) Energy is absorbed.
- B) Energy is released.
- C) The molecule creates energy.
- D) The molecule destroys energy.

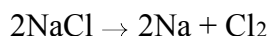
5. Given the balanced equation representing a reaction:



What occurs during this reaction?

- A) A bond is broken as energy is absorbed.
- B) A bond is broken as energy is released.
- C) A bond is formed as energy is absorbed.
- D) A bond is formed as energy is released.

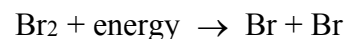
6. Given the balanced equation representing a reaction:



To break the bonds in NaCl, the reactant must

- A) absorb energy
- B) create energy
- C) destroy energy
- D) release energy

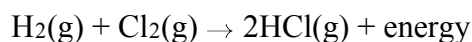
7. Given the balanced equation representing a reaction:



Which statement describes the energy change and bonds in this reaction?

- A) Energy is released as bonds are broken.
- B) Energy is released as bonds are formed.
- C) Energy is absorbed as bonds are broken.
- D) Energy is absorbed as bonds are formed.

8. Given the balanced equation representing a reaction:



Which statement describes the energy changes in this reaction?

- A) Energy is absorbed as bonds are formed, only.
- B) Energy is released as bonds are broken, only.
- C) Energy is absorbed as bonds are broken, and energy is released as bonds are formed.
- D) Energy is absorbed as bonds are formed, and energy is released as bonds are broken.

9. Which statement describes what occurs as two atoms of bromine combine to become a molecule of bromine?

- A) Energy is absorbed as a bond is formed.
- B) Energy is absorbed as a bond is broken.
- C) Energy is released as a bond is formed.
- D) Energy is released as a bond is broken.

10. Given the balanced equation representing a reaction:



What occurs during this change?

- A) Energy is absorbed and a bond is broken.
- B) Energy is absorbed and a bond is formed.
- C) Energy is released and a bond is broken.
- D) Energy is released and a bond is formed.