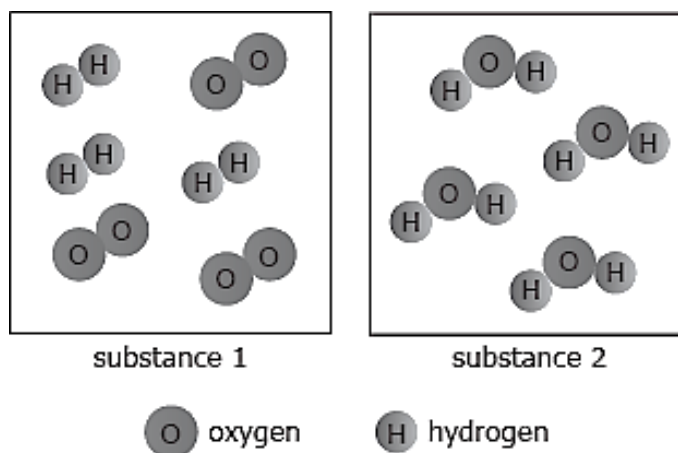


1. A student reads that hoverflies mimic the pattern of yellow and black coloration present on the body of a wasp. However, hoverflies are unable to sting other organisms like a wasp.

Why do hoverflies mimic a wasp?

- A to attract mates
- B to fly effectively
- C to lure prey
- D to ward off predators

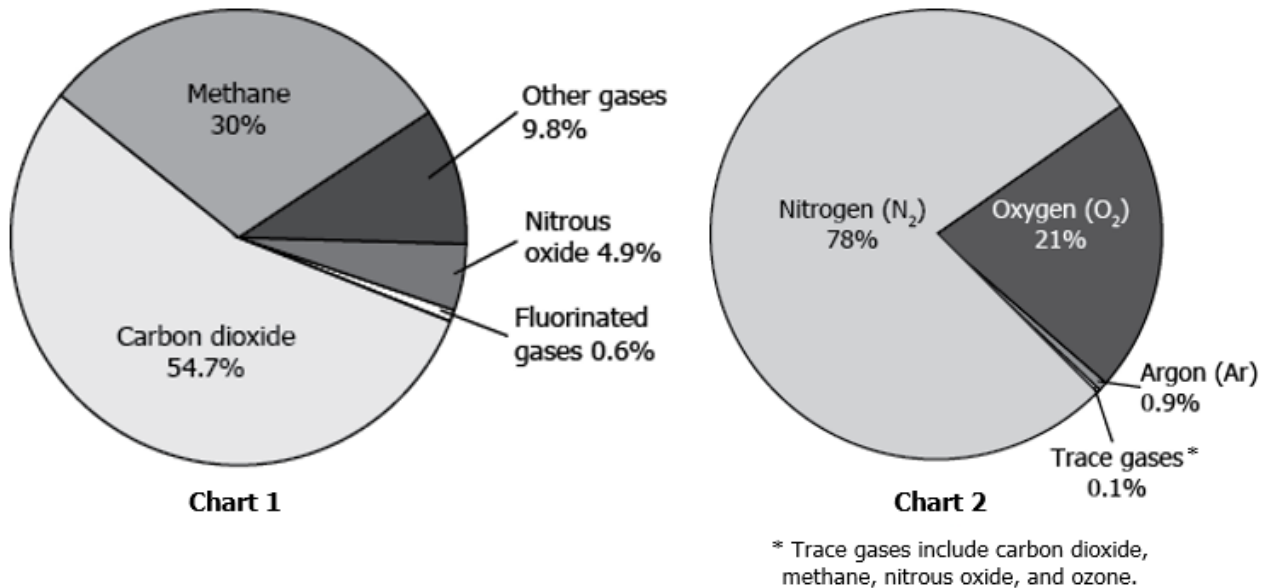
2. The diagram shows the atomic arrangement of two substances formed by hydrogen (H) and oxygen (O) atoms.



Which option *correctly* identifies the substances?

- A substance 1: mixture; substance 2: mixture
- B substance 1: compound; substance 2: mixture
- C substance 1: mixture; substance 2: compound
- D substance 1: compound; substance 2: compound

3. A teacher displays two charts on the board, as shown. Chart 1 shows the major greenhouse gases that are added to the atmosphere due to human activities, and Chart 2 shows the composition of air.



Which component of the atmosphere will *likely* increase due to additional greenhouse gas production?

- A Argon gas
 - B Nitrogen gas
 - C Oxygen gas
 - D Trace gases
4. A young child has been diagnosed with a rare genetic mutation in a protein called myostatin, which plays a role in regulating muscle growth. The child has very high amounts of muscle and very little fat because of the mutation. Having such high muscle content makes the child stronger and faster than peers, allowing the child to excel in sports. The parents must provide enough fat in the child's diet to keep the brain healthy since the body cannot store fat.

How is the mutation experienced by this child *best* classified?

- A beneficial only
- B neutral only
- C harmful and beneficial
- D harmful and neutral