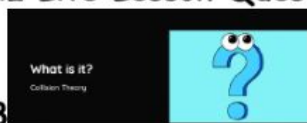
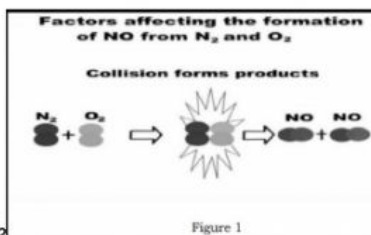


Collision Theory: Quizziz Live Lesson Questions

Starts on Slide: 28



1. According to the collision theory, reacting substances must come in contact (_____) with enough activation energy, and in the correct _____ (facing the correct way), so that their electron shells can rearrange to form the _____ of the reaction.
2. **Slide 30:** The two factors that determine whether a reaction will occur between two particles that are colliding:
 - Substances or particles of reactions must _____ collide with enough energy.
 - Substance or particles must come into contact or collide in the _____ orientation (facing the correct way)



3. **Slide 32:** Collision of N_2 and O_2 _____ The shared atoms form a _____ by completing the valence shells of both atoms.
4. **Slide 33:** As shown in figure 2, a chemical reaction does _____ take place if the collision between molecules does not have sufficient energy to break the bonds in the reactants and if the molecules are not properly aligned.
5. **Slide 35:** When two particles collide, sometimes a chemical reaction can occur, which means the bonds between two or more particles are broken and _____, creating one or more new substances.

(Continues on next page)

6. **Slide 38:** The particles must collide with enough energy to break their chemical bonds. The amount of energy that must be available for a reaction to occur is often referred to as the _____. It is the measure of the change in the concentration of the reactants or products.

7. **Slide 41:** Factors Affecting the Rate of Chemical Reaction

- _____
- Temperature
- Concentration
- _____ and Particle Size

8. **Slide 45:** Arrange the following samples according to the rate of solubility of sugar. (1 - fastest, 3 - slowest)



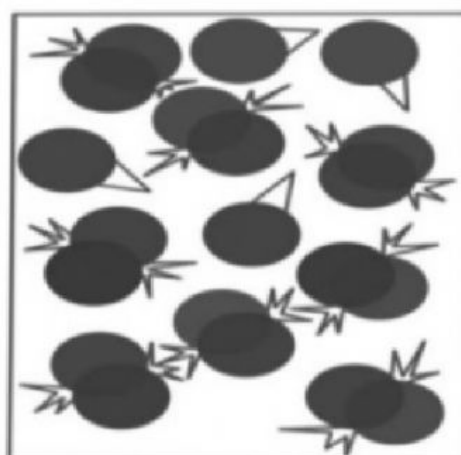
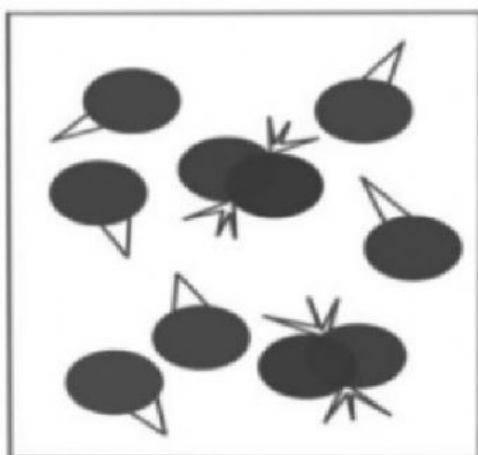
Cold water



Hot water



Tap water



9. **Slide 48:**

