

I'm not a robot



This product has not yet been rated. Apply scientific principles and evidence to provide an explanation about the effects of changing the temperature or concentration of the reacting particles on the rate at which a reaction occurs. Emphasis is on student reasoning that focuses on the number and energy of collisions between molecules. Assessment is limited to simple reactions in which there are only two reactants; evidence from temperature, concentration, and rate data; and qualitative relationships between rate and temperature. Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction. Emphasis is on using mathematical ideas to communicate the proportional relationships between masses of atoms in the reactants and the products, and the translation of these relationships to the macroscopic scale using the mole as the conversion from the atomic to the macroscopic scale. Emphasis is on assessing students use of mathematical thinking and not on memorization and rote application of problem-solving techniques. Assessment does not include complex chemical reactions. Plan and conduct an investigation to gather evidence to compare the structure of substances at the bulk scale to infer the strength of electrical forces between particles. Emphasis is on understanding the strengths of forces between particles, not on naming specific intermolecular forces (such as dipole-dipole). Examples of particles could include ions, atoms, molecules, and networked materials (such as graphite). Examples of bulk properties of substances could include the melting point and boiling point, vapor pressure, and surface tension. Assessment does not include Raoult's law calculations of vapor pressure. 0% (1/10) found this document useful (1 vote) 17K views This virtual lab activity explores the relationships between gas properties like pressure, volume, temperature, and amount of substance. Students use an online simulation to investigate four AI-enhanced title and description Save Save Virtual Lab Activity on Gas Properties Answer Key For Later 0% found this document useful, undefined

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