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make waves with a dripping faucet audio speaker or laser adjust frequency and amplitude and observe the effects hear the sound produced by the speaker and discover what determines the color of light waves intro phet interactive simulations gases intro phet interactive simulations this lab uses the waves intro simulation from phet interactive simulations at university of colorado boulder under the cc by 4 license phet colorado sims html waves intro latest waves intro en html note about prior learning students should have completed waves on a string remote lab or lessons with make waves with water sound and light and see how they are related explain how changing the frequency and amplitude affects the characteristics of the wave design an experiment to measure the speed of the wave identify the relationship between pressure volume temperature and number of gas molecules describe the relationship between particle wall collisions and pressure predict how changing temperature will affect the speed of molecules blast a buick out of a cannon learn about projectile motion by firing various objects set the angle initial speed and mass add air resistance make a game out of this simulation by trying to hit a target java2d pump gas molecules to a box and see what happens as you change the volume add or remove heat change gravity and more measure the temperature and pressure and discover how the properties of the gas vary in relation to each other explore bending of light between two media with different indices of refraction see how changing from air to water to glass changes the bending angle play with prisms of different shapes and make rainbows pump gas molecules to a box and see what happens as you change the volume add or remove heat change gravity and more measure the temperature and pressure and discover how the properties of the gas vary in relation to each other build circuits with batteries resistors light bulbs and switches determine if everyday objects are conductors or insulators and take measurements with an ammeter and voltmeter view the circuit as a schematic diagram or switch to a lifelike view study with quizlet and memorize flashcards containing terms like electromagnetic mechanical longitudinal wave and more sample learning goals explain the conservation of mechanical energy concept using kinetic energy ke and gravitational potential energy pe describe how the energy bar and pie charts relate to position and speed explain how changing the skater mass affects energy circuit construction kit dc virtual lab wiggle the end of the string and make waves or adjust the frequency and amplitude of an oscillator sample learning goals discuss wave properties using common vocabulary predict the behavior of waves through varying medium and at reflective endpoints version 1 1 9 for teachers teacher tips free science and math simulations for teaching stem topics including physics chemistry biology and math from university of colorado boulder build circuits with batteries resistors ideal and non ohmic light bulbs fuses and switches determine if everyday objects are conductors or insulators and take measurements with an ammeter and voltmeter view the circuit as a schematic diagram or switch to a lifelike view pump gas molecules to a box and see what happens as you change the volume add or remove heat change gravity and more measure the temperature and pressure and discover how the properties of the gas vary in relation to each other sample learning goals explain how light bends at the interface between two media and what determines the angle apply snell s law to a laser beam incident on the interface between media describe how the speed and wavelength of light changes in different media explore bending of light between two media with different indices of refraction see how changing from air to water to glass changes the bending angle play with prisms of different shapes and make rainbows

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identify the relationship between pressure volume temperature and number of gas molecules describe the relationship between particle wall collisions and pressure predict how changing temperature will affect the speed of molecules

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sample learning goals explain how light bends at the interface between two media and what determines the angle apply snell s law to a laser beam incident on the interface between media describe how the speed and wavelength of light changes in different media

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