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JAQUAN DUDLEY

Behavior Of Liquids And Solids

Behavior Of Liquids And Solids Gases, liquids and solids are all made up of atoms, molecules, and/or ions, but the behaviors of these particles differ in the three phases. The following figure illustrates the microscopic differences. Gases, Liquids, and Solids In melting the particles are close together and can't move around (solid) → close together and free to move around (liquid). In evaporating/boiling the particles are close together and free to move around (liquid) → far apart and free to move (gas/vapour). The Behaviour of Solids, Liquids and Gases - Activity Explain the observations in Experiment 1 with respect to the behavior of liquids and solids. Be specific including pressure and temperature changes and the forces of attraction changes that occur with the particles in the substances. Classroom Resources | The Behavior of Solids and Liquids ... Solids and liquids have particles that are fairly close to one another, and are thus called "condensed phases" to distinguish them from gases Density : The molecules of a liquid are packed relatively close together. 11.2: Solids, Liquids, and Gases- A Molecular Comparison ... -theory based on the idea that particles of matter are always in motion. -the theory can be used to explain the properties of solids, liquids, and gases in terms of the energy of the particles and the forces that are between them. solids. behavior of solids, liquids, and gases Flashcards | Quizlet Start studying Behavior of solids, liquids, gases.

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In melting the particles are close together and can't move around (solid) → close together and free to move around (liquid). In evaporating/boiling the particles are close together and free to move around (liquid) → far apart and free to move (gas/vapour).

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Solids and liquids have particles that are fairly close to one another, and are thus called "condensed phases" to distinguish them from gases Density : The molecules of a liquid are packed relatively close together.

Gases, Liquids, and Solids

-theory based on the idea that particles of matter are always in motion. -the theory can be used to explain the properties of solids, liquids, and gases in terms of the energy of the particles and the forces that are between them. solids.

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gases is the nature of the interaction that attracts one particle (atom, ion, or molecule) to another. What forces hold matter together to make liquids and solids? The attractive forces that hold molecules together are called intermolecular forces.

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Explain the observations in Experiment 1 with respect to the behavior of liquids and solids. Be specific including pressure and temperature changes and the forces of attraction changes that occur with the particles in the substances.

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The new research draws on published studies detailing the behavior of 84 different liquids, and the researchers found that a fresh analysis of the data, along with their own experimental work on water, shows a previously unrecognized universal property they all share in terms of how their viscosity and other characteristics change with temperature.

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The Behaviour of Solids, Liquids and Gases - Activity

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motion and frequently collide with each other and with the walls of any container. Gases behave differently than solids or liquids do. For example, the volume of a gas can change due to pressure, but the volume of a solid or liquid generally cannot.

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Intermolecular Forces. As was the case for gaseous substances, the kinetic molecular theory may be used to explain the behavior of solids and liquids. In the following description, the term particle will be used to refer to an atom, molecule, or ion. Note that we will use the popular phrase "intermolecular attraction" to refer to attractive forces between the particles of a substance ...

The behaviour of particles in solids, liquids and gases ...

solid are tightly packed, usually in a regular pattern. Particles in a: gas vibrate and move freely at high speeds. liquid vibrate, move about, and slide past each other. solid vibrate (jiggle) but generally do not move from place to place. Liquids and solids are often referred to as condensed phases because the particles are very close together.

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A demonstration of the behaviour of particles as solids, liquids and gases. An experiment shows bromine gas being heated in a sealed tube. Cartoon pictures demonstrate the behaviour of particles ...
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Gases, liquids and solids are all made up of atoms, molecules, and/or ions, but the behaviors of these particles differ in the three phases. The following figure illustrates the microscopic differences.

The Kinetic Molecular Theory: Properties of Solids and Liquids

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Liquids have more kinetic energy than solids. When a substance increases in temperature, heat is being added, and its particles are gaining kinetic energy. Because of their close proximity to one another, liquid and solid particles

experience intermolecular forces. These forces keep particles close together.

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