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liquids and solids (PDF)

what is a difference between gases and liquids 1 liquids have a stronger imf 2 liquid particles are attracted to each other whereas gas particles are not what created the kinetic energy in liquids the particles vibrating and spinning what reduces the amount of space between the particles of a liquid the imfs between the molecules of a liquid the size and shape of the molecules and the temperature determine how easily a liquid flows as table 10 2 shows the more structurally complex are the molecules in a liquid and the stronger the imfs between them the more difficult it is for them to move past each other and the greater is the pressure at a depth in a fluid finding height of fluid in a barometer what is pressure buoyant force and archimedes principle learn archimedes principle and buoyant force what is buoyant force buoyant force example problems fluid dynamics learn volume flow rate and equation of continuity what is volume flow rate liquids are much more dense than gases more dense liquids and solids are known as states of matter condensed the conversion of a liquid to a gas or vapor is called vaporization when a liquid that is not changes to a gas the process is called evaporation boiling air particles continue to enter through the balloon s walls the walls of the balloon gradually compress the gas inside air particles collide with the walls of the balloon the temperature of the air inside the balloon gradually decreases 14 is the ability of a fluid to exert an upward force on an object immersed in it answers gases are composed of tiny particles that are separated by large distances gas particles are constantly moving experiencing collisions with other gas particles and the walls of their container the velocity of gas particles is related to the temperature of a gas choose 1 answer melting a melting freezing b freezing vaporization c vaporization condensation d condensation do 4 problems learn for free about math art computer programming economics physics chemistry biology medicine finance history and more ap chemistry unit 3 intermolecular forces properties topic 3 3 3 3 solids liquids and gases 6 min read december 29 2022 kanya shah dalia savy attend a live cram event review all units live with expert teachers students cram with us remember when we went over matter in unit one solid this state of matter has the least kinetic energy gas this state of matter fills whichever container is it in liquid particles in this state of matter slide past each other and take the shape of their container giving it a definite volume solid standardized test practice in which state of matter would you expect to find water at 108 c and 1 atm on earth on which points on the graph is water increasing in temperature on which points on the graph is the water changing state which of these is likely to have matter in a plasma state in which state of matter are the particles likely chapter 16 solids liquids and gases by clicking below students can find web links for the science online features in their book section and chapter review quizzes standardized test practice additional math practice games

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air particles continue to enter through the balloon s walls the walls of the balloon gradually compress the gas inside air particles collide with the walls of the balloon the temperature of the air inside the balloon gradually decreases 14 is the ability of a fluid to exert an upward force on an object immersed in it

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pressure force exerted per unit area buoyancy the ability of a fluid to exert an upward force on an object immersed in it boyle's law $p_i v_i = p_f v_f$ if you decrease the volume of a container of gas and hold the temperature constant the pressure of the gas will increase charles law $v_i t_i = v_f t_f$

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