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Have you ever wondered how liquid pressure works or what factors contribute to its intensity? Understanding liquid pressure is crucial in various about how temperature affects water pressure or why gravity plays a role, this blog post will delve into the fascinating world of fluid mechanics. In this comprehensive guide, we'll explore the factors that influence liquid pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions such as: How much does water pressure in detail, answering questions are the factors that influence are the factors that influence are the factors of the mechanics behind liquid pressure and how different variables interact to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. So, grab a cup of your favorite beverage, sit back, and let's dive into the intriguing world of liquid pressure to affect it. fish could understand. So grab a floatie and let's dive into the factors that influence liquid pressure. Depth: The Deeper, the Merrier! Just like how your stress levels increase the deeper you go underwater, the weight of all that water above you creates greater pressure. So, if you're feeling the pressure at work, just remember that the ocean feels it too! Density: The More, the Squeezier! Density plays a role in determining liquid pressure at work, just remember that the ocean feels it too! Density: The More, the Squeezier! Density plays a role in determining liquid pressure at work, just remember that the ocean feels it too! Density: The More, the Squeezier! Density plays a role in determining liquid pressure at work, just remember that the ocean feels it too! Density plays a role in determining liquid pressure. liquids, the denser the substance, the more tightly packed the molecules are, resulting in higher pressure. So next time you're stuck in an overly crowded space, just think of it as a physics lesson in action! Gravity: The Force That Keeps It All Down Ah, good old gravity. It's not just responsible for keeping us from floating off into space; it also plays a role in liquid pressure. Gravity pulls everything downward, including liquids. So, the weight of the liquid itself, combined with the force of gravity, contributes to the pressure felt at any given point. It's like the earth giving you a reassuring hug, except it's a bit more forceful. Surface Area: Size Does Matter! We all know that size matters, and that applies to liquid pressure too. The size of the surface area in contact with the liquid affects the pressure each area feels. So, if you ever find yourself wanting to decrease the pressure, just imagine spreading out like a giant pancake. Works every time! Now that we've explored the factors influencing liquid pressure, you're armed with knowledge that will make you the life of the next pool party. Remember, depth, density, gravity, and surface area all play a role in determining the pressure experienced by liquids. So, the next time you take a dip or find yourself pondering the mysteries of physics, you'll know exactly what's going on beneath the surface. Happy swimming! FAQ: Factors Affecting Liquid Pressure how much does water pressure is directly influenced by temperature changes. As the temperature rises, water molecules become more energetic and move around with greater speed. This increased motion leads to greater collisions with the container walls, resulting in higher pressure can you get from gravity The amount of water pressure you can get from gravity depends on the height of the water source above the point of measurement. This vertical distance, known as the "head," determines the potential energy possessed by the water source, the greater the pressure. It's like having your own natural water pressure booster, courtesy of gravity! Does gravity! Does gravity increase water pressure energy, which is then converted into pressure energy. This means that the pressure exerted by the water increases as it moves closer to the ground. So, we can say gravity is a pressure-pumping superhero! What are the factors influence liquid pressure several factors influence liquid press play a role. So, it's not just about the depth, but a combination of factors that determine the pressure experienced by a liquid. What are three factors that affect the liquid pressure Depth: The deeper the liquid, you'll feel the increasing weight pushing against you. So, remember to take a deep breath and brace yourself! Density: Denser liquids, such as mercury, exert greater pressure compared to less dense liquids. So, be sure to handle those heavy hitters with caution! Gravity influences the weight of the liquid, resulting in higher pressure at lower elevations and depths. Gravity truly knows how to pull its weight! How do I calculate pressure increase To calculate the increase in pressure, you'll need to consider the change in depth or elevation. The formula involves multiplying the height difference by the density of the liquid and the acceleration due to gravity. Mathematically speaking, the pressure increase can be calculated as follows: math Pressure Increase = (Height Difference) × (Liquid Density) × (Acceleration due to Gravity) Can you convert pressure to flow rate are related, they are not directly convertible. Pressure refers to the force exerted per unit area, while flow rate measures the volume of liquid flowing per unit time. However, by using principles such as Bernoulli's equation and considering factors such as pipe diameter and fluid viscosity, it is possible to determine the liquid party! References: [^1^]: Smith, J. (2021). The effect of temperature on water pressure. Science ABC. Link [^2^]: US Department of the Interior - Bureau of Reclamation. (2023). Water Measurement Manual - Chapter 3. Link Weight and mass are two fundamental concepts in the world of physics, yet they are often used interchangeably... Erosion is a natural process that shapes the Earth's surface over time. It occurs when soil and rock... Have you ever wondered how our understanding of motion and gravity has evolved over the centuries? In the... Are you curious about the different forces that act upon us in our everyday lives? From our very... Are you stranded on the side of the road with a flat tire and no jack? Or maybe... Have you ever wondered about the energy possessed by a baseball as it soars through the air? Is... Have you ever wondered why certain objects float in water while others sink? It's a fascinating concept that... In our daily lives, we often experience the effects of force without even realizing it. Force is a... Have you ever wondered why a needle sinks in water while a large ship floats effortlessly on the... Fluid dynamics can be a fascinating field of study, full of intriguing scientific principles and rules. One such... The pressure given by a force is directly proportional to its magnitude, i.e. Pressure (P) a Force (F) force is inversely proportional to the area where it acts, i.e. Pressure (P) α 1/Area (A)(ii) Combining equation (i) and (ii), we get, P α (F/A) Or, P= k (F/A) Where, k is a constant The force is measured in Newton and the area is measured in Newton and perpendicularly on the unit area of that surface. The SI unit of pressure is Newton/metre2 which is also called Pascal (Pa) to honour the French scientist Blaise Pascal. If the force of one Newton acts on one square meter area, the pressure exerted by the dam structure and also to withstand the enormous pressure of the stored water. The base of walls of buildings, bridges and temples is made wider to reduced. Pressure at a depth in a liquid due to liquid column only: Consider a container with a base area (A) x depth (h) = Ah Mass liquid = base area (A) x depth (h) = Ah Mass liquid = density (ρ) x volume = ρ x Ah Weight of liquid = mass of liquid (ρ Ah) x acceleration due to gravity (g) Force at the base (F) = ρ Ahg/A= ρ gh i.e. P= ρ gh Factors affecting the pressure at a point in a liquid: Depth of the point below the free surface (h) Density of the liquid (ρ) Acceleration due to gravity (g) Pascal's law: Transmission of pressure in liquids Pascal's law states that the pressure exerted at any point in a liquid enclosed in a container is transmitted equally in all directions throughout the liquid. The transmitted pressure, acts with equal force, on every unit area of the containing vessel in a direction at right angles to the surface of the vessel exposed to the liquid. i.e. P1 = P2 or F1/A1 = F2/A2 or, F2 = F1(A2/A1) (frictionless and no leakage of water) Hydraulic press, hydraulic In other words, upthrust is the resultant force with which a liquid (W2) i.e. $U = W1 - W2 U = A(h2-h1)\rho g = V\rho g = weight$ of the object in liquid displaced. Factors affecting the upthrust: The volume of the body immersed in liquid The density of liquid in which the object is immersed Archimedes' principle: Archimedes' principle states that when a body is immersed partially or completely in a liquid, it experiences an apparent loss in weight due to upthrust, which is equal to the weight of fluid displaced by it. When a body is immersed in a liquid, the following two forces act on it. The weight of the liquid acting vertically downwards that tries to sink the body. The upthrust of the liquid acting vertically upwards that tries to sink the body which acts vertically upwards that tries to sink the body is greater than the upthrust. The downward force is greater because of which the body is equal to the upthrust. The upward and downward forces are equal because of which the body is less than the upthrust. The upward and the apparent weight of such body will be zero. The weight of the body is less than the upthrust. The upward and the apparent weight of such body sinks in the liquid. force is greater which causes the body to rise up and float on the surface of the liquid. The density of such object is less than the density of the liquid. Law of floatation states that when a body floats on a liquid, the weight of the floating body is equal to the weight of the liquid displaced. Applications of the principle of floatation: Ships are hollow and full of air, which makes their average density less than that of water. The weight of the ship and hence the ship floats. Flotation of icebergs. This is because, the density of ice is less than that of water. Have you ever wondered if mute people can scream? It's a thought that might have crossed your mind, and you're not alone. Mute individuals, who are unable to speak or have limited speech ability, navigate a unique world of communication that often leaves us with questions. In this blog post, we'll delve into the curious topic of whether or not mute people can scream. We'll explore the complexities of being mute, including how to identify if your baby is mute and whether or not a mute person can regain their ability to talk. Additionally, we'll bust myths and address common inquiries like whether mute babies can scream or if being born mute is possible. Join us on this captivating journey as we uncover the mysteries surrounding mute individuals' vocal expressions. So, let's embark on this enlightening exploration and discover the truth behind the question: Can mute people scream? Can mute people scr in the conventional sense, there are various ways they can still express themselves and make their emotions heard, sometimes even through unconventional means. The Silent Shriek Mute individuals may not possess the ability to produce sound through unconventional means. The Silent Shriek Mute individuals may not possess the ability to produce sound through unconventional means. horror movie scene where the protagonist, a mute character, encounters a terrifying ghost. As the ghost slowly inches closer, our protagonist, unable to scream, tenses up, eyes wide with terror, and fingers tightly gripping onto anything within reach. Although the scream remains internal, the emotions conveyed through body language and facial expressions are just as intense and spine-chilling as any audible shriek. A Touch of Sign Language Popularly used by the deaf community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community, sign language is a visually captivating way of community way of co themselves in a terrifying situation that calls for a scream, they can use sign language to express their fear and make the hairs on the back of your neck stand up. With rapid, fluid hand movements and facial expressions that mirror their emotional state, the message comes across loud and clear, even without a single spoken word. The Power of the Pen Words can be powerful, even when they're not spoken aloud. Mute individuals often turn to writing as a means of communication. The simple act of putting pen to paper allows them to express their thoughts, feelings, and yes, even a scream. Imagine sitting in a room with a mute person who is penning down their deepest fears and anxieties. As you read their words, you can almost hear the silent scream echoing through the ink-stained pages, sending chills down your spine. The Roar Within What about those moments when the frustration becomes too overwhelming, and a scream seems like the only release? Mute individuals may find alternative ways to vent their emotions. Perhaps they unleash a fierce roar within the privacy of their own space or channel their feelings into other outlets. From pounding on a drum set with furious intensity to creating abstract art that captures the essence of their silent screams, mute individuals have the power to express their inner turmoil in unique and captivating ways. A Silent Symphony of Expression While mute individuals may not scream in the conventional sense, their ability to communicate and express themselves goes far beyond the limitations of spoken words. Through body language, sign language, writing, and alternative means of expression, they create their own symphony of emotions that can be just as captivating and spinetingling as any scream. So next time you encounter a mute person, remember to look beyond their silence, as their ability to expressions, body language, sign language, writing, communication, alternative means of expression Frequently Asked Questions: Can Mute People Scream? Welcome to our comprehensive FAQ-style guide on the intriguing topic of whether mute people can scream. We understand that this question might have piqued your curiosity, so we've compiled a list of commonly asked questions to provide you with a better understanding of the subject. Settle in, relax, and let's dive into the fascinating world of mute individuals are unable to speak using their vocal expressions. Can Mute People Scream Ah, the million-dollar question! While mute individuals are unable to speak using their vocal express themselves in other ways. Some people use alternative methods such as sign language or communication aids to convey their emotions effectively. How Can You Tell If Your Baby Is Mute Babies, adorable bundles of joy, can be born mute, but it may take time for this condition to primary mode of communication for infants, it's natural to question whether your baby might be mute. However, it is crucial to remember that babies develop at their own pace. If you have concerns about your baby's vocal abilities, consult with a pediatrician or a speech-language pathologist who can evaluate your little one's speech and language development. They will assess whether any underlying conditions may be affecting their ability to communicate verbally. Can a Mute Person Talk Again Absolutely! In many cases, a mute person can regain their ability to talk through various interventions. Speech therapy and specialized techniques can significantly enhance vocal skills, allowing individuals to find new ways to produce sounds and articulate words. Every individual journey is unique, but never underestimate the power of determination and the support of professionals. Can Mute Babies Scream While mute babies may not be able to scream in the traditional sense, they can still make vocalizations and express their discomfort or displeasure. Babies have an incredible repertoire of cries, coos, and babbling sounds to communicate their needs and emotions. So fear not, parents! Your little munchkin will find their own way to let you know when they're not happy. Can a Baby Be Born Mute Yes, it is possible for a baby to be born mute. However, it is essential to understand that mutism in infants could be a symptom of an underlying condition o rather than a standalone issue. If you suspect your baby may be mute, discussing your concerns with a medical professional or a pediatrician is essential. They can provide guidance, conduct thorough evaluations, and help identify any potential causes or treatments. Can Mute People Laugh Laughter, the universal language of joy, knows no boundaries. Mute people can most definitely express their amusement and share a good laugh with others. While they might not burst into laughter truly is music to the soul, and being mute doesn't hinder anyone from experiencing its contagious magic. We hope this FAQ-style guide has shed some light on the intriguing question of whether mute people can scream. While vocal limitations exist for some, human ingenuity and determination have paved the way for abilities. Let's celebrate diversity, embrace different forms of expression, and foster inclusivity in our interactions with others. In the fast-paced world of rescue missions, energy plays a vital role in ensuring the success of the team. When we think about energy, we often envision the physical strength required to perform tasks, but it goes beyond that. Potential energy, in particular, plays a crucial role in the mission's success. But what exactly is potential energy? How does it come into play during rescue operations? And why is it so important for the team? In this blog post, we will explore the concept of potential energy and delve into its significance in the context of rescue missions. Whether it's the stored energy in our bodies or the various energy sources available to the team, we will examine how potential energy plays a fundamental role in ensuring the safety and its involvement in the heroic feats of rescue teams in 2023. Potential Energy in Action: How it Boosts Rescue Missions When it comes to rescue missions, potential energy can make all the difference. So, let's dive into one fascinating way potential energy comes into play during these life-or-death situations. The Mind-Bending Elastic Potential Energy Imagine a rescue team swooping in to save the day. As they traverse treacherous friend, and let's find out! Bungee Cords: More than Just Thrills Bungee cords, commonly associated with daredevil leaps from towering heights, have proven their worth in the realm of rescue missions as well. These ingenious cords are like the superheroes of potential energy, quietly lurking along with rescue teams, ready to spring into action when needed. Launching the Human Slingshot." No, it's not a circus act or some wild amusement park ride. It's a clever use of elastic potential energy, with bungee cords taking center stage. By securely attaching one end of a bungee cord to a fixed anchor, and the other end to a rescuer, they can create a highly efficient human catapult system. Zooming to the Rescue When the tension on the cord is released, the potential energy stored within it transforms into kinetic energy, propelling the rescuer forward at astonishing speeds. With this swift burst of energy, rescuers can cover significant distances in a matter of seconds, bypassing obstacles and reaching those in distress with lightning speed. A Soaring Success The elastic potential energy unleashed by bungee cords enables the rescue team to perform daring feats that seem straight out of an action movie. It takes the saying "faster than a speeding bullet" to a whole new level! This innovation not only saves precious time but also enhances the safety of both rescuers and the rescuer cord-powered rescuers, potential energy can come to the human slingshot to the adrenaline-soaked zooming of bungee cord-powered rescuers, potential energy takes center stage, defying the laws of physics and giving hope to all in need. FAQ: Understanding the Role of Potential energy in Rescue Team Missions Is Food potential energy food is not potential energy in the form of glucose. This glucose is then converted into ATP (adenosine triphosphate), which is a molecule that provides energy for our body's functions. What is another name for stored energy is commonly referred to as potential to be converted into other forms, such as kinetic energy, when certain conditions are met. What are the 10 types of energy are: Kinetic Energy - energy stored in an object's position or condition Thermal Energy - energy stored in chemical Energy - energy stored in chemical Energy - energy stored in an object's position or condition Thermal Energy - energy stored in an object in an obje bonds Electrical Energy - energy associated with the flow of electromagnetic waves (e.g., light) Nuclear Energy - energy released during nuclear reactions Sound Energy - energy associated with the gravitational field Elastic Energy - energy stored in an object when it is deformed or compressed Is the sun the best energy, it may not always be the most viable option for a rescue team While the sun is an abundant source of energy, it may not always be the most viable option for a rescue team may rely on portable power sources like batteries or generators that provide immediate energy without dependence on daylight conditions. How can I have a high energy personality, there are a few strategies you can adopt: Engage in Regular Exercise: Physical activity helps boost your energy levels and improves overall wellbeing. Get Sufficient Sleep: Prioritize quality sleep to recharge your body and mind. Eat Nutritious Meals: A balanced diet provides the necessary fuel for your body and mind to function optimally. Manage Stress: Stress management techniques, such as meditation or hobbies, can help preserve and enhance your energy levels. Why is energy important needed to transform into kinetic energy to move around all day The primary source of energy for our bodies is the food we consume. Through digestion, our bodies break down carbohydrates, fats, and proteins into glucose. Glucose is then transported to cells, where it undergoes cellular respiration, converting it into ATP (adenosine triphosphate) the energy currency for our body's activities. What is one way potential energy might be involved in a rescue team mission one way potential energy might be involved in a rescue team mission is through the use of stored gravitational energy might be involved in a rescue team mission is through the use of stored gravitational energy might be involved in a rescue team mission is through the use of stored gravitational energy might be involved in a rescue team mission is through the use of stored gravitational energy might be involved in the use of stored gravitational energy might be involved in the rescue team mission is through the use of stored gravitational energy might be involved in the rescue team mission is through the use of stored gravitational energy might be involved in the use of stored gravitational energy might be involved in the use of stored gravitational energy might be involved in the use of stored gravitational energy might be involved in the use of stored gravitation and the use of stored gra potential energy stored in these systems can be harnessed to perform tasks like lifting debris or reaching victims in hard-to-reach locations. Which energy source is the best energy source for the rescue team The best energy source like batteries or generators are often preferred as they can provide immediate power regardless of external conditions. These sources can be easily transported and offer flexible energy options to support various equipment and communication devices. What are the 12 forms of energy Here are 12 forms of energy: Kinetic Energy Potential Energy Thermal Energy Chemical Energy Electrical Energy What is a word that means full of life is "vibrant," When someone is vibrant, they exude energy, liveliness, and enthusiasm. It describes a person who is lively and full of vitality. How can energy from gasoline be used to make a flashlight shine Gasoline itself cannot directly power a flashlight. However, gasoline can be used as a fuel to power an energy from gasoline be used as a fuel to power an energy from gasoline be used as a fuel to power an energy from gasoline can be used as a fuel to power an energy from gasoline can be used as a fuel to power an energy from gasoline be used as a fuel to power an energy from gasoline can be used as a fuel to power a How do you describe an energetic person An energetic person is typically described as lively, enthusiastic, and full of vigor. They possess a high level of physical and mental activity, exuding positivity and a zest for life. An energetic person often has a contagious enthusiasm that can uplift those around them and inspire others to engage actively in various activities. Calculate the depth of water in a swimming pool where a pressure of 20 kPa is exerted. The density of water is 1000 kg/m3 and the gravitational field strength on Earth is 9.8 N/kg. Answer: Step 1: List the known quantities Pressure, Density of water, Gravitational field strength, Step 2: List the relevant equation Step 3: Rearrange for height, Δh Step 4: Convert any unitsStep 5: Substitute in the valuesPage 2The diagram below shows the parts of the lifting machine used to move the platform upwards. Calculate the force that the liquid applies to the piston. Answer: Step 1: List the known quantitiesCross-sectional area = 2.73 × 10-2 m2Pressure = 5.28 × 105 PaStep 2: Write down the relevant equationStep 3: Rearrange for the appropriate number of significant figures and quote the correct unitPage 3Exam code: 0625 & 09723 hours42 questionsA woman is in contact with the floor. In which of these poses does she produce the most pressure on the floor? Assume she is wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure? A skier wearing flat shoes in each pose. Did this page help you? Which is an example of a force acting over a small area to produce a large pressure. having very wide tyres. A person lying down, rather than walking upright on a roof. Did this page help you? A water-filled tank is resting on a table as shown in Fig. 1Using the measurements in the diagram, determine the area which should be used to calculate the pressure the tank exerts on the table. Did this page help you? The diagram shows four measuring identical cylinders containing either distilled water or concentrated sugar solution. Which measuring cylinder has the least pressure at the base, due to the liquid? Did this page help you? Extended tier only For the tank of water? The density of water = 1000 kg/m3Did this page help you? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? the depth of the water at Xthe length of the water the thickness of the dam wallDid this page help you? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The diagram shows a deep reservoir formed by a dam. On what does the pressure at X depend? The depth of the water at X depend? The depth of the water at X depend markA dam holds water in a reservoir. The height of the water in the reservoir is 15 m. The density of water is 1000 kg / m3. What is the pressure due to the water in the diagram. The briefcase is now turned so that it rests with its large flat side on the floor, How has the change affected the force on the floor, and the pressure exerted by the briefcase on the floor? Force Pressure Aunchanged Did this page help you? A small metal block is suspended under the surface of a beaker of water by a string. The metal block experiences a pressure exerted by the liquid. What would increase the pressure exerted on the metal block/increasing the metal block deeper into the liquidDid this page help you? A wooden block rests on a table. On which surface should the block be laid to produce the largest pressure on the table? Any side, they will all produce the same pressure on the base of the tank due to the water? The density of water = 1000 kg/m3Did this page help you? What pressure does the object in the diagram below exert on the ground beneath it?Did this page help you?A student uses her thumb to push a drawing pin (thumb tack) into a notice board. The pin goes into the board but does not penetrate her thumb to push a drawing pin (thumb tack) into a notice board. The pin goes into the pin goes into the board but does not penetrate her thumb. pin on the notice board. The force exerted by the pin on the notice board is greater than the pressure of the pin on her thumb. Did this page help you? Two identical fish tanks are filled with water to the same level. One tank contains fresh water. The other tank contains sea water is more dense than fresh water to the surface of the sea. A submarine is 20 m below the surface of the sea. The pressure due to the sea water at this depth is P.On another day, the submarine is 26 m below the surface of fresh water. The density of sea water at a depth of 26 m? Did this page help you? Liquid of mass 92 kg is contained in a rectangular tank. The area of the base of the tank is 0.23 m2. What is the pressure exerted by the liquid on the base of the tank?2.510-4 N/m2Did this page help you?101 mark A woman has a weight of 600 N. She stands on a horizontal floor. The area of her feet in contact with the floor is 0.050 m2. What is the pressure she exerts on the floor?Did this page help you? The table gives four combinations of the force applied to a surface and the area over which it acts. Which row gives the smallest pressure exerted on the surface? Force / NArea / m2A400.5B402.0C800.5D802.0Did this page help you? Three beakers of water are placed on a table. The depth of water in each container is the same. In which container does the water exert the greatest pressure on the base of the container? None, the pressure is the same in all three. Did this page help you? A person walking through snow sinks into it. The person makes a change so that they do not sink as far next time they go out. What do they do? Crouch as they walk to lower their centre of massRur. as fast as they can to increase the power they dissipateWear shoes with a much larger area on the bottom to increase their weight and so make them more stable .Did this page help you?There is a significant risk to submarines which dive to very great depths.Why is it dangerous to do this? The temperature of water is too low at greater depths. The gravitational pull increases at greater depths. The gravitational pull increases at greater depths. The density of water is too great at greater depths. The gravitational pull increases at greater depths. The density of water is too great at greater depths. The gravitational pull increases at greater depths. The density of water is too great at greater depths. The gravitational pull increases at greater depths. The gravitational pull increases at greater depths. The density of water is too great at greater depths. The gravitational pull increases at greater depths. The gravitation gravi pressure on the ground when the ornament's position is changed. Did this page help you? Page 4Momentum, Impulse Pressure in a Liquid Reflection, Refractive Index, Total Internal Reflection, Refractive Index, Internal Reflection, Refractive Index, Internal Reflection, Refractive Index, Internal Reflection, Refractive Internal Reflection, Refractive Index, Internal Reflection, Refractive I Dispersion of LightElectric Charge, Demonstrating Electric Charges, Electric Charges, Electrical Energy, Electrical Energy, Electrical Power Have you ever seen a pyramid of people? Consider the person in the last row from the bottom. He is clearly carrying far more weight than the man in the front row. The fluid pressure in a column is the same way. The pressure in a fluid column rises in proportion to the depth. And why is there a rise in pressure in a fluid column rises in proportion to the depth. And why is there a rise in pressure in a fluid column rises in proportion to the depth. And why is there a rise in pressure in a fluid column rises in proportion to the depth. thus state, "The pressure at a place within a fluid caused by the fluid's weight is known as fluid pressure at a point in a fluid ρ = Pressure at the reference point Pfluid = Pressure at a point in a fluid ρ = Pressure at the reference point The density of a fluid may be estimated by dividing its mass by the volume of fluid taken into account. $\rho = m/V$ where, m = Mass of the fluid V = V where, M = Mass of the fluid is subject to atmospheric pressure on the system is given by Pfluid V = V where, M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = V where M = Mass of the fluid V = Mass then watch the video given below. Put your understanding of this concept to test by answering a few MCQs. Click 'Start Quiz' to begin! Select the correct answer and click on the "Finish" buttonCheck your score and answers at the end of the quiz Visit BYJU'S for all Physics related queries and study materials 0 out of 0 arewrong 0 out of 0 are correct 0 out of 0 are Unattempted View Quiz Answers and Analysis Fire safety is a critical concern in both residential and commercial settings. Having the right knowledge and tools to combat a fire can make all the difference in protecting lives and property. One commonly used fire extinguisher is the CO2 (carbon dioxide) extinguisher, known for its effectiveness in tackling both electrical and flammable liquid fires. But have you ever wondered about the pressure inside a CO2 fire extinguisher? In this blog post, we will dive deep into the world of CO2 fire extinguisher? In this blog post, we will dive deep into the world of CO2 fire extinguisher? In this blog post, we will dive deep into the world of CO2 fire extinguishers and explore their pressure levels, usage, and other related information. Keywords: Which extinguishers doesn't have a pressure gauge? What is the pressure of a CO2 fire extinguisher? Is arcanine better than typhlosion? Unleashing the Power of CO2 with a "BOOM!" When it comes to fire extinguishers, the CO2 (carbon dioxide) version is like the superhero of fire-fighting. But have you ever wondered what exactly makes this little canister so effective? Well, let's delve into the pressurized world of CO2 fire extinguishers and uncover their secret weapon: pressure! The Scientific Marvel of CO2 Fire Extinguishers CO2 fire extinguishers are like the cool cats of the firefighting gang. They work their magic by using carbon dioxide, which is stored at extremely high pressure inside the canister. Picture this, folks: it's 2023, and your battle against fire begins with a CO2 fire extinguisher equipped with pressure that can make a can of beans feel like they're attending a rock concert! The Mighty Pressure Inside Okay, let's get technical - or as technical as we can without causing a fire in our brains! CO2 fire extinguishers typically operate at pressures of around 850 pounds per square inch (psi). That's enough pressure to propel you smack-dab into the 22nd century! Co2 fire extinguishers pack a serious punch, enough to quell even the most ferocious of flames. The "Fire Power" Behind the Pressure Now, let's talk about how this pressure-packed CO2 actually puts out fires. When you squeeze that trigger like a boss, the high-pressure CO2 is released, and it transforms from a liquid to gas form in an instant. This quick transition creates a mini-cold explosion, cooling down the surrounding fire and starving it of oxygen. It's like dropping an ice-cold bomb on those pesky flames, leaving them whimpering in defeat! Safety First - Equipment You Can Trust Now, as much as we love a good explosion (safely, of course), it's essential to remember that CO2 fire extinguishers should only be handled by trained individuals. The pressure is potent, and mishandling it can be downright dangerous. So, let's leave the superhero antics to the professionals and keep ourselves safe while we're at it. The Pressure is On! So, the next time you come face-to-face with a fire, be glad you're armed with a CO2 fire extinguisher that's under pressure - the good kind of pressure CO2 that's ready to kick some fiery buttocks! Just make sure you handle it responsibly and let the pressure do its thing. Stay safe, folks! So there you have it, a glimpse into the thrilling world of CO2 fire extinguisher pressure. Now you know why these little canisters are the heroes of fire-fighting, armed with the power to cool and conquer even the most defiant flames. So, the next time you see a CO2 fire extinguisher, tip your hat to the pressure within, and give a nod of respect to the super scientists who harness its fire-fighting potential. Stay safe, my friends, and let the pressure be with you! FAQ: What You Need to Know About the Pressure of a CO2 Fire Extinguisher Which Fire Extinguisher Doesn't Have a Pressure Gauge When it comes to fire extinguishers, there are various types available, each with its unique features. One type of fire extinguisher that doesn't have a pressure gauge is the CO2 fire extinguishers are designed to operate based on the weight of the carbon dioxide (CO2) inside. So, next time you come across a fire extinguisher without a pressure gauge, chances are it's a CO2 one! What Is the Pressure of a CO2 fire extinguisher Ah, the pressure of a CO2 fire extinguisher, an intriguing question indeed! Well, dear reader, buckle up as we dive into the fascinating realm of CO2 pressure. The pressure inside a CO2 fire extinguisher is typically kept between 800 and 900 pounds per square inch (psi). To put that into perspective, it's like having a tiny fire-fighting geyser right in your hands! Now, you might wonder why the pressure is so high. The reason is simple yet impressive. Such high pressure is so high. The reason is simple yet impressive. quickly expands, turning into gas, and voila! It smothers the fire, robbing it of the oxygen it needs to survive. Is Arcanine Better Than Typhlosion Ahem, excuse me, but it seems we've wandered off into the world of Pokémon! Nevertheless, we're always up for a friendly debate about Pokémon prowess. So, let's get ready to rumble! Arcanine, the majestic fire-type Pokémon known for its bravery and loyalty, certainly boasts some impressive stats and moves. Its immense speed and fiery attacks make it a formidable opponent. However, Typhlosion, the fiery powerhouse with its blazing back, packs quite a punch too. Its special attacks can leave opponents singed and running for cover. But here's the real question: is one better than the other? Well, that's a matter of personal preference and battle strategy. Some trainers may lean towards Arcanine's versatility and overall stat distribution, while others may prefer Typhlosion's raw power. Ultimately, both Pokémon have their unique strengths and weaknesses, making them valuable additions to any trainer's team. Now, if you'll excuse me, it seems a fire needs extinguishing, and while our Pokémon friends can battle it out, we'll turn to our trusty CO2 fire extinguishers and even provide some unexpected Pokémon banter. Remember, in the game of fire safety and Pokémon battles, knowledge is power! Stay informed, stay safe, and may the flames always be in your favor. As more and more students are pursuing work immersion programs, it's important to understand the significance of developing essential skills during this period. Work immersion is period. an invaluable opportunity for students to gain practical experience in a professional environment, allowing them to apply what they've learned in the classroom to real-life scenarios. In this blog post, we will explore the relevance and benefits of acquiring these skills for work immersion students in 2023. Throughout their work immersion journey, students have the chance to cultivate a range of skills that are vital for their future careers. These skills extend beyond subject-specific knowledge and encompass crucial abilities such as communication, teamwork, problem-solving, and adaptability. Mastering these skills enables students to become more well-rounded individuals, equipped with the tools necessary to succeed in any professional setting. Join us as we dive deeper into understanding the importance of Skills for Work Immersion Students Develop Real-World Experience Work Immersion programs provide students with the invaluable opportunity to gain hands-on experience in a professional setting. By immersing themselves in a work environment, students can apply the knowledge they have learned in the classroom to real-world situations. This practical experience allows them to develop a deeper understanding of their chosen field and helps bridge the gap between theory and practice. Build Professional Networks One of the key benefits of work immersion is the chance to build a strong professional network. By working alongside industry professionals, students are given the opportunity to connect with individuals who can provide guidance, mentorship, and even future employment opportunities. These connections can be instrumental in launching a successful career after the communication skills Effective communication skills. Through daily interactions with colleagues, superiors, and clients, students learn to articulate their ideas clearly, engage in active listening, and collaborate effectively as part of a team. These skills are highly transferable and will undoubtedly benefit students with real-world challenges that require them to think critically and develop creative solutions. Whether it's troubleshooting technical issues, addressing interpersonal conflicts, or finding innovative ways to improve existing processes, students are exposed to a variety of problem-solving scenarios. This hands-on experience hones their ability to think analytically, adapt to unpredictable situations, and make informed decisions - all attributes that are highly sought after by employers. Foster Independence and Responsibility Work immersion encourages students to take ownership of their work and become more self-reliant. They learn to manage their time effectively, prioritize tasks, and meet deadlines. These responsibilities help students develop a sense of accountability and independence, which are crucial skills in the professional world. Moreover, the experience gained from work immersion empowers students to become more confident in their abilities, setting them up for success in any future endeavors. Gain a Competitive Edge In today's job market, employers are seeking candidates who can hit the ground running and add immediate value to their organizations. Work immersion programs give students a competitive edge by providing them with the practical skills and experience that employers desire. Whether it's through internships, co-op placements, or apprenticeships work immersion equips students with a unique advantage, making them stand out from their peers and increasing their chances of securing desirable employment opportunities. Overall, the skills gained through work immersion are essential in preparing students for the challenges of the professional world. From enhancing communication skills to fostering independence and problem-solving abilities, work immersion equips students with the tools they need to thrive in an increasingly competitive job market. So, if you're a work immersion student, embrace the opportunity with open arms, and get ready to embark on an exciting journey that will shape your future success! FAQ: What is the Importance of These Skills for Work Immersion Students Is Sprinkling a Form of Baptism Sprinkling as a form of baptism, it is not the same as immersion. In work immersion, students dive deep into real-world experiences, fully immersion students benefit greatly from this approach as it allows them to develop their communication skills and fluency in the language, which are essential for success in the globalized work environment. What is the Importance of These Skills include: 1. Communication Skills Clear and effective communication is highly valued in any workplace. Work immersion provides students with the opportunity to hone their oral and written communication skills, enabling them to express their ideas, collaborate with others, and convey information concisely. 2. Adaptability In the fast-paced world of work, adaptability is a valuable skill. Work immersion students learn to adapt to different work environments, navigate new challenges, and quickly adjust to meet the demands of their placements. This flexibility prepares them for the ever-changing landscape of the professional world. 3. Problem-Solving Abilities Problem-solving is a crucial skill that work immersion students develop. By facing real-life workplace situations, they learn to analyze problems critically, come up with innovative solutions, and make effective decisions. These problem-solving abilities enhance their overall professional competence. 4. Teamwork and Collaboration Success in the workplace often hinges on one's ability to work well with others. The skills gained through work immersion expose students to diverse teams and encourage collaboration. They learn to effectively contribute, cooperate, and resolve conflicts, making them valuable team players in various work settings. 5. Time Management Good time management is essential for productivity and meeting deadlines. Through work immersion, students learn to prioritize tasks, manage their schedules, and efficiently allocate their time, ensuring they deliver high-quality work within agreed-upon timelines. What is the Correct Way of Baptism Baptism, for religious purposes, varies among different faith traditions. While some perform sprinkling, others practice immersion. However, in the context of work immersion, the correct way pertains to immersing students in professional experiences, providing them with hands-on learning opportunities that shape their career potential. What is Total Immersion Baptism Total immersion baptism is a religious practice in which a person is fully immersed or submerged in water during the baptismal ritual. This symbolic act represents a spiritual transformation or rebirth. In work immersion, students undergo a different type of total immersion, fully engaging in the working world to gain practical knowledge and skills for their future careers. Did Jesus Receive the Holy Spirit When He Was Baptized According to the Christian tradition when Jesus was baptized by John the Baptist, the Holy Spirit descended upon him like a dove, signifying the divine approval and empowerment for his mission. While work immersion students may not receive the Holy Spirit during their career experiences, they do gain valuable insights, skills, and professional development that can empower and guide them in their journey. What is the Difference Between Immersion and Submersion and submers submerged or plunged beneath a surface, such as submerging oneself underwater. While work immersion students dive deep into their industry experiences, they resurface with newfound knowledge and skills, rather than remaining submerged indefinitely. When Did Baptism by Immersion Begin The practice of baptism by immersion has ancient roots and can be traced back to various religious and cultural traditions. Its precise origins are challenging to pinpoint, as the act of immersion, the concept emerged as an innovative educational approach aimed at preparing students for the workplace Why Did John the Baptist Baptize Jesus According to the Christian scriptures, John the Baptist baptized Jesus as a symbolic act, preparing the way for Jesus' ministry. John believed that baptism symbolic act, preparing the way for Jesus' ministry. John believed that baptism symbolic act, preparing the way for Jesus' ministry. John believed that baptism symbolic act, preparing the way for Jesus' ministry. John believed that baptism symbolic act, preparing the way for Jesus' ministry. John believed that baptism symbolic act, preparing the way for Jesus' ministry. John believed that baptism symbolic act, preparing the way for Jesus' ministry. 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What are the Disadvantages of Work Immersion While work immersion offers numerous benefits, like any educational method, it comes with its own set of challenges. Some potential disadvantages include: 1. Limited Exposure Depending on the specific work placement students may have limited exposure to different aspects of an industry. This can restrict their understanding of the broader field and limit their overall learning experiences. 2. Lack of Control Work immersion requires students to adapt to the workplace's schedule and demands, limiting their control over their learning environment. They must adhere to company policies and work within existing structures, which may not always align with their own preferences or learning styles. 3. Potential Workload Work immersion students may face increased workloads, as they juggle their educational commitments with their workplace responsibilities. Balancing both aspects can be challenging, requiring strong time management skills and adaptability. 4. Limited Scope for Mistakes In the professional world, mistakes can have consequences. While work immersion provides a safe learning environment, students may feel additional pressure to perform well and avoid errors, inhibiting their willingness to take risks and learn from failures. Despite these challenges, work immersion remains an invaluable opportunity for students to develop essential skills, explore career interests, and gain practical experience, setting the foundation for future success. Note: The content above is AI-generated and may not reflect personal beliefs or opinions. Ah, the Salem witch trials - a dark chapter in American history that continues to captivate our imagination.... Welcome to our comprehensive guide on understanding topographic map and the five rules of contour lines. Whether you're... Have you ever looked at a topographic map and the five rules of contour lines. Whether you're... Have you ever looked at a topographic map and the five rules of contour lines. Whether you're... Have you ever looked at a topographic map and the five rules of contour lines. known as the interior lowlands, play... Jericho, a city shrouded in ancient stories and mysteries, holds an intriguing place in the history of human... Mountains are majestic natural formations that have captivated humanity for centuries. Whether you're an avid hiker, a curious... Have you ever wondered how liquid pressure works or what factors contribute to its intensity? Understanding liquid pressure... Pressure in fluids is a fundamental concept in fluid statics and dynamics, and it helps explain how forces are distributed in liquids and gases. This lesson dives into the physics of pressure, covering its mathematical representation, real-world applications, and how depth and fluid density impact it. Pressure is the force exerted per unit area on the surface of an object. Mathematically, it's represented as: P = F/AWhere: P: Pressure (in Pascals, Pa) F: Force (in Newtons, N) A: Area (in square meters, m²) For example, the pressure exerted on the ground by a person standing on one foot is higher than when standing on both feet, as the force is spread over a smaller area in the first case. Depth and Pressure Relationship The deeper you go into a fluid, the greater the pressure at a given depth P_0 : Atmospheric pressure at the surface (around 101,325 Pa or 14.7 psi at sea level) ρ : Fluid density (kg/m³) g: Gravitational field strength (9.8 N/kg on Earth which is equivalent to 9.8 m/s2) h: Depth of the fluid (m) Key Insight: As depth (h) increases, pressure in deep water. Fluid DensityDenser fluids exert more pressure at the same depth. For instance, mercury, with its high density (13,600 kg/m³), generates much higher pressure at a fixed depth here Gravitational Field StrengthIn stronger gravitational fields, like on Jupiter, the pressure at the same depth would be much higher compared to Earth. Gauge Pressure vs. Absolute Pressure (Pqauge = ρqh): Pressure detailed the tire relative to atmospheric pressure, including atmospheric pressure acting at the valve is absolute pressure. Atmospheric pressure, often abbreviated as ATM, is the pressure exerted by the weight of the Earth's atmosphere on everything at the surface. At sea level, the atmosphere (ATM) This baseline pressure is critical for a variety of natural and technological processes, making it a foundational concept in fluid mechanics. Breathing and Human PhysiologyThe atmospheric pressure around us ensures that oxygen is delivered efficiently to our lungs. Without sufficient atmospheric pressure, oxygen would not diffuse properly into our bloodstream. At higher altitudes, where atmospheric pressure decreases, this reduced oxygen availability is why people may experience altitude increases. For instance, at 35,000 feet, the atmospheric pressure is only about 0.2 ATM. Without pressurization, humans wouldn't be able to breathe or function properly at such altitudes. Pressure Comparisons in FluidsAtmospheric pressure (P) in fluids. For example: $P = P_0 + \rho phHere$, $P_0 + p$ pressure exerted by a column of mercury 760 mm high in a barometer. This value is so standardized that it's often used in experiments, calculations, and real-world applications. Conversions: 1 ATM = 101,325 Pa 1 ATM = 760 mmHq 1 ATM ≈ 14.7 psi Boiling Point VariationAtmospheric pressure affects the boiling point of liquids. At higher altitudes where pressure is lower, water boils at temperatures below 100°C. This is why cooking instructions often vary for high-altitude locations. Fluid Pressure and absolute pressure is a reference point for gauge pressure is 32 psi + 14.7 psi (atmospheric pressure). For more details about atmospheric pressure and its significance, check out the following resources: Pressure is considered a scalar quantity because it has magnitude but no specific direction. Unlike vector quantities, which include both magnitude and direction (such as force or velocity), pressure applies equally in all directions at a given point within a fluid. Equal Distribution in Fluids; Fluids, such as liquids and gases, consist of particles that move freely in every directions, without favoring a particular orientation. Mathematical Explanation: To better understand, let's examine the formula for pressure: P = F/A (force divided by area). The force's directional components cancel each other out within the fluid. What remains is only the scalar magnitude of the pressure, which does not depend on direction. Practical Examples When you are underwater, pressure surrounds your body equally, no matter how you are positioned. Similarly, air in a sealed container exerts pressure uniformly in all directions. This ensures there is no directional bias within the container. Pressure in Everyday Life Walking on snow with snowshoes exerts less pressure, preventing sinking. Hydraulic systems, like car brakes, use fluid pressure to transmit force efficiently. Pressure UnderwaterAt 10 meters of depth in water, the pressure increases by approximately 1 atmosphere (101,325 Pa) due to the weight of the water column above. 1) A diver is 20 m underwater in the ocean. Calculate the absolute pressure they experience, assuming water density is 1,025 kg/m³. (Use atmospheric pressure of 101,325 Pa) due to the weight of the water column above. 1) A diver is 20 m underwater in the ocean. Pa and a gravitational field strength of 9.8N/kg) 2) If the density of a fluid doubles, how does the pressure at a given depth in water, the pressure at a given depth in water at a given depth in 7, Class 8, Class 9, Class 10, Class 11 and Class 12, IIT JEE prep, NEET preparation and CBSE, UP Board, Rajasthan Board, Raj get under AIR 100 in NEET & IIT JEE. Get PDF and video solutions of IIT-JEE Mains & Advanced previous year papers, NCERT books for classes 6 to 12, CBSE, Pathfinder Publications, RD Sharma, RS Aggarwal, Manohar Ray, Cengage books for boards and competitive exams. Doubtnut is the perfect NEET and IIT JEE preparation App. Get solutions for NEET and IIT JEE previous years papers, along with chapter wise NEET MCQ solutions. Get all the study material in Hindi medium and English medium for IIT JEE and NEET preparation Download the Testbook APP & Get Pass Pro Max FREE for 7 Days10,000+ Study Notes Realtime Doubt Support71000+ Mock TestsRankers Test Series + more benefitsDownload App Now Question 1 How does the pressure of a liquid depends on its depth. Explain? Question 2 What conclusion do you get from the observation that a fountain of water is created at the leaking joint of pipes of the main water supply line? Question 3 Liquids exert pressure on the wall of contain. Explain? Question 4 Liquid exert pressure on the bottom of the container. Explain? Question 5 liquid exerts pressure on the base or bottom and walls of their container. All the liquid exerts pressure on the base or bottom and walls of their container. Explain? Question 5 liquid exerts pressure on the bottom of the container. Explain? Question 5 liquid exerts pressure on the base or bottom and walls of their container. Explain? Question 5 liquid exerts pressure on the base or bottom and walls of their container. Explain? Question 5 liquid exerts pressure on the bottom of the container. Explain? Question 5 liquid exerts pressure on the base or bottom and walls of their container. Explain? Question 5 liquid exerts pressure on the base or bottom and walls of their container. Explain? Question 6 liquid exerts pressure on the base or bottom and walls of their container. Explain? Question 6 liquid exerts pressure on the base or bottom and walls of their container. liquid into a vessel, then the weight of liquid pushes down on the base of the vessel producing a pressure exerted by a liquid exerts pressure exerted by a liquid increases with increasing depth inside the liquid. The pressure exerted by a liquid is small just under the surface of the liquid. But as we go we deeper in a liquid increases and hence the pressure of liquid increases the weight of liquid increases the weight of liquid increases and hence the pressure also increases the weight of liquid increases and hence the pressure also increases the weight of liquid increases the weight of liquid increases. As the deepth of liquid increases and hence the pressure also increases the weight of liquid increases and hence the pressure of liquid increases. depth from the top of vessel. The three tubes are of equal diameters and corks are fitted into them. The vessel is filled with water from uppermost tube is found to travel the shortest distance from the base of the vessel, the water from middle tube goes a little farther away whereas water from the lowermost shoots out farthest all. The depth of water near uppermost tube is small so the water comes out from uppermost tube is greater so the water comes out from uppermost tube and falls farther away from the base of vessel. The depth of water near lowermost tube is the greatest so the water comes out of lowermost tube with the greatest pressure and goes farthest from the vessel. As the depth of water increases the pressure and goes farthest from the vessel. As the depth of water increases the pressure and goes farthest from the vessel. As the depth of water increases the pressure of water gradually increases. pressure on the walls of the vessel in which they are stored. The sideways pressure of a liquid on walls of a vessel is almost zero at its surface. As the depth of liquid increases the sideways pressure on the walls of the vessel gradually increases and it becomes maximum near the bottom of the vessel. The wall of a dam is made thicker at the bottom so as to tolerate very high sideways pressure exerted by deep water stored in the reservoir of dam. Activity: Liquid exert pressure on the bottom of its container which depends on the height of its column Take a transparent plastic pipe. Also take a thin sheet of a rubber. Stretch the thin rubber sheet and tie it tightly over one end of the plastic pipe is the container which has stretchable bottom made of a thin rubber sheet it tightly over one end of the plastic pipe. The plastic pipe is the container which has stretchable bottom made of a thin rubber sheet it tightly over one end of the plastic pipe. The plastic pipe is the container which has stretchable bottom made of a thin rubber sheet. bulges out. The bulging out of rubber sheet demonstrates that the water poured in pipe exerts a pressure on the bottom of container is made of a flexible, thin rubber sheet which can get stretched by the pressure exerted by water to form a buldge. Now pour some water in the plastic pipe so that height of water column in the pipe increases. As the height of water column increases the bulge in its rubber sheet bottom. We conclude that: (1) A liquid exerts pressure on the bottom of its container. (2) The pressure exerted by a liquid depends on the height of the liquid column. Activity: A liquid exerts pressure on the walls of its container Take a plastic bottle. Fix a small glass tube with plastic bottle by using molten wax so that water does not leak from the joint. Tie a thin sheet of rubber street ied to the mouth of glass tube ets ied to the mouth of glass tube fixed in the wall of plastic bottle demonstrates that water present in plastic bottle exerts pressure on the walls of the bottle. It is the sideways pressure exerted by water which inflates the thin rubber sheet increases with increases with increasing depth. (1) The pressure exerted by a liquid on the walls of container increases with increasing depth. (2) A liquid exerts pressure on the walls of its container. Activity: A liquid exerts equal pressure at the same depth Take a plastic bottle. The holes should be at exactly the same height from the bottle with water. The two jets of water coming out of the two jets of water can fall at equal distance on the two sides of the bottle only if the pressure of water at the depth of 2 holes in the bottle is equal. We conclude that (1) A liquid exerts pressure on the walls of its container. (2) A liquid exerts equal pressure at the same depth. The formation of fountains of water from the leaking pipes of water supply pipeline tells us that water exerts pressure on the walls of its container.

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