

Figure 1: A diagram illustrating the concept of buoyancy. On the left, a rectangular block is suspended by a spring scale, showing its weight in air. On the right, the same block is submerged in a liquid, and the spring scale shows a reduced weight, indicating the upward buoyant force.

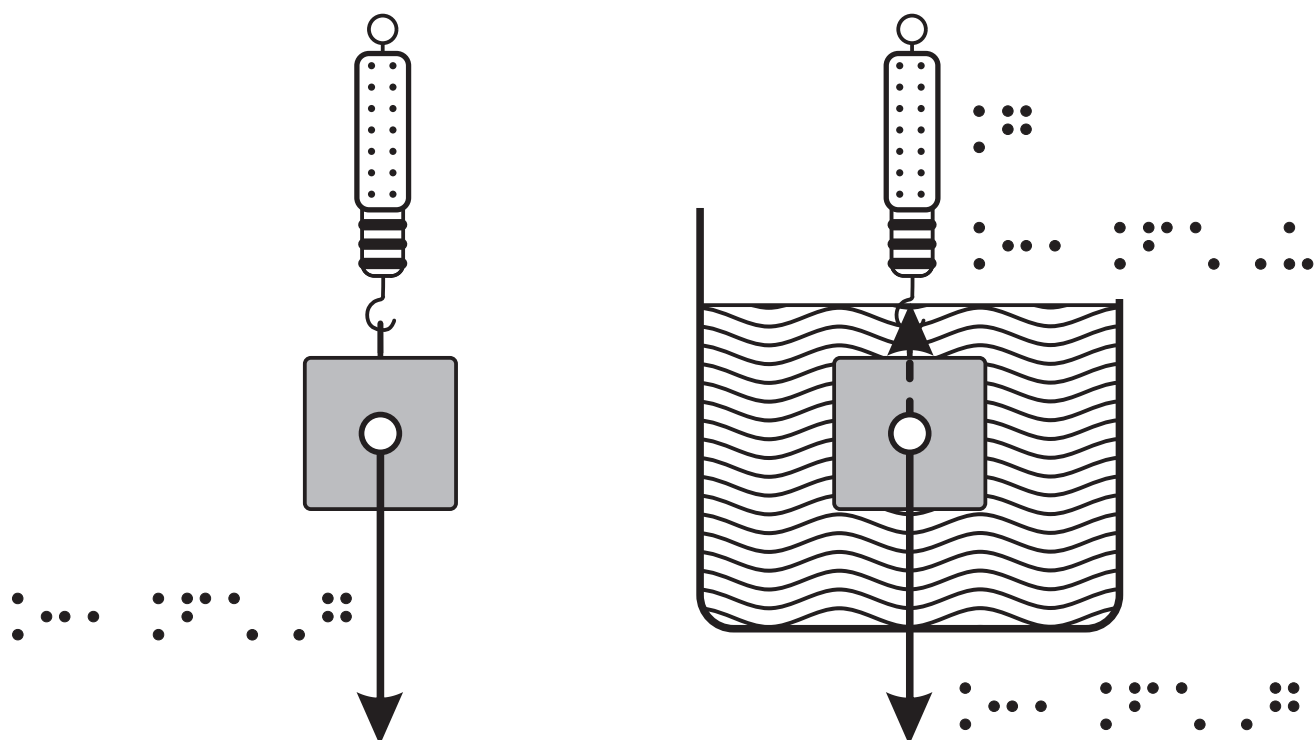


Figure 2: A diagram illustrating the concept of density. A rectangular block is shown floating in a liquid. The block is partially submerged, indicating that its density is less than the density of the liquid. A hand is shown lifting the block out of the liquid, and a small amount of liquid is shown dripping from the block.

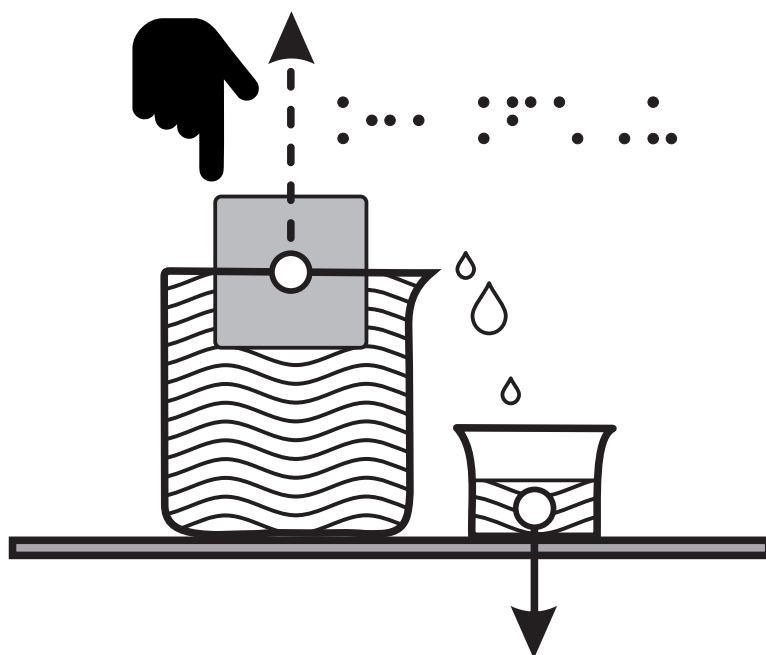


Figure 3: A diagram illustrating the concept of density. A rectangular block is shown floating in a liquid. The block is partially submerged, indicating that its density is less than the density of the liquid. A hand is shown lifting the block out of the liquid, and a small amount of liquid is shown dripping from the block.