

Density

When mass stays the same volume has to increase for density to decrease. Mass is a body of matter with no definite shape. Density is a property of matter that is unique to each substance. Volume is the amount of space enclosed by a shape or object and how much dimensional space it occupies.

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Our groups boat design relates to our topic because our boats volume decides if it is able to float or not. The bigger amount of space the boats surface area takes up, the easier it would be for it to float. If the same amount of mass on a smaller boat tries to float, that boat would most likely sink, but because our boat takes up the right amount of space, it makes it capable for it to stay above water. Our boat is bigger, and takes up the right amount of space, so it is able to float on water with the people inside.



As the Volume is increasing the density is decreasing because the mass is staying the same.