

## Mass versus Volume



In this photograph we can see that the shoebox has a greater volume than the hooked mass. We know this because the shoebox clearly takes up more space. On the other hand, since the weight is pushing down that side of the balance, it contains more matter than the shoebox—it has more mass.



In this photograph we can see that the shoebox again has a greater volume than the hooked mass, since it clearly takes up more space. In this photo it also has more mass. In order for the shoebox to push down on the balance it must contain more matter than the hooked mass.