



Density Worksheet

Student Activity #1:

All of these objects are the same size and shape, so we can assume they have the same volume.

What do you observe when you drop the balls into water? Draw what you observe and write a sentence or two that might explain what you are seeing.

Student Activity #2:

Measure the objects and calculate volume (V= L*W*H)

Object	Length (cm)	Width (cm)	Height (cm)	Volume (cm ³)
Bar				
Cube 1				
Cube 2				

Weigh the objects:

Object	Mass (in grams)
Bar	
Cube 1	
Cube 2	

Calculate the density (d=m/v):

Object	Mass (in grams)	Volume (cm ³)	Density (g/cm ³)
Bar			
Cube 1			
Cube 2			

*****Keep track of units! It is very helpful when solving problems and checking your work.



Student Activity #3:

Volume of cubes:

Mass of cubes:

Cube (material)	Mass (grams)	Density (g/cm ³)
Acrylic		
Aluminum		
Brass		
Copper		
Nylon		
Pine (wood)		
PVC		
Steel		

Number the objects showing the most to least dense.

Student Activity #4:

Object description	Mass dry (grams)	Volume of object	Density of object	Object Material
(column 1)	(column 2)	(column 3)	(column 4)	

Object density (column 4) = (column 2/column 3)

