What is Density?

	is a characteristic property of a substance of a substance is the relationshi	n hatricar
	of a substance and how much space it takes up	p between
().	_ of a substance and now much space it takes up	
	of the atoms, their	and how
	the of a substance.	, and no
	of a substance divided by its	
	ensity = mass/volume $(D = m/v)$	
	ne but different mass have different	
hat is Density?		
v Concepts:		
	is a characteristic property of a substance.	
	of a substance is the relationshi	p between
	_ of a substance and how much space it takes up	
().		1.1
The	of the atoms, their of a substance.	, and hov
that are among add datamains		
Density equals the	of a substance divided by its	
Density equals the De	of a substance divided by its $ensity = mass/volume$ ($D = m/v$)	
Density equals the De	of a substance divided by its	
Density equals the De	of a substance divided by its $ensity = mass/volume$ ($D = m/v$)	
Density equals the De	of a substance divided by its $ensity = mass/volume$ ($D = m/v$)	
Density equals the Do Objects with the same volume	of a substance divided by its $ensity = mass/volume$ ($D = m/v$)	
Density equals the Do Objects with the same volume hat is Density? Concepts:	of a substance divided by its ensity = mass/volume (D = m/v) ne but different mass have different is a characteristic property of a substance.	
Density equals the Do Do Objects with the same volumental is Density? Concepts: The	of a substance divided by its ensity = mass/volume (D = m/v) me but different mass have different is a characteristic property of a substance. of a substance is the relationshi	
Density equals the Do Dobjects with the same volume hat is Density? Concepts: Thethe	of a substance divided by its ensity = mass/volume (D = m/v) ne but different mass have different is a characteristic property of a substance.	
Density equals the Do Dobjects with the same volume hat is Density? Concepts: The the ().	of a substance divided by its ensity = mass/volume (D = m/v) me but different mass have different is a characteristic property of a substance. of a substance is the relationshi of a substance and how much space it takes up	p between
Density equals the Do Dobjects with the same volume hat is Density? y Concepts: The	of a substance divided by its ensity = mass/volume (D = m/v) ne but different mass have different is a characteristic property of a substance of a substance is the relationshi of a substance and how much space it takes up of the atoms, their	p between
Density equals the Do Objects with the same volume hat is Density? Concepts: The	of a substance divided by its ensity = mass/volume (D = m/v) me but different mass have different is a characteristic property of a substance. of a substance is the relationshi of a substance and how much space it takes up	p between

What is Density? Processing

Calculate the density using the formula **Density** = mass/volume (D = m/v) and record it in the chart.

Sample	Volume (cm ³)	Mass (g)	Density (g/cm ³)	Material
A	15.6			
В	15.6			
С	15.6			
D	15.6			
Е	15.6			
F	15.6			
G	15.6			
Н	15.6			

Compare the value you found for density with the given value in the chart below to identify which cube is made out of which material. Write the name of the material in your chart for cubes A - H.

Material	Approximate Density (g/cm ³)
Aluminum	2.9
Brass	8.8
Copper	9.3
Steel	8.2
PVC	1.3
Nylon	1.2
Oak	0.7 - 0.9
Pine or Poplar	0.4 - 0.6

The size, mass, and arrangement of atoms affect the density of a substance.

If a substance has *high density*, what can you guess about the size, mass, and arrangement of atoms that make up the substance?

If a substance has a *low density*, what can you guess about the size, mass, and arrangement of the atoms that make up the substance?