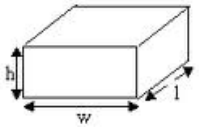
Density of Wood

Name: Period

1. Compare the DENSITY of 5 different woods from both softwood and hardwood trees. The identification chart with the sample box has the classification listed. Do at least one from the "special" box. DO NOT DO any special manufactured samples for your first 5 (plywood, particle board etc.).
2. Use one rectangular sample at a time. Leave the ID chart with the samples.
2. Measure AND record your data, using centimeters and grams to the nearest 10^{th}, as 3.1 or 0.4. Length, width & height depend on how you set the block. For this you will have 3 different measures.
3. Calculate density (D=m÷**v)** rounding to the nearest 10^{th} (0.1). (0.56778 rounds to 0.6)



Density = mass(g) divided by volume(cm^3) OR D = m/v

#	ID #	S H OR SP	Wood Name Do softwood (S), hardwood(H) + one special(SP). Check the ID chart with samples.	mass in grams (m)	Length in cm (l)	width in cm (w)	height in cm (h)	Volume l X w X h in cm^3	Density m/v in $g/(cm^3)$ to the nearest 0.1 (10th)
1									
2									
3									
4									
5									

4. Place at least five of the woods that you measured in order of density, from least to greatest.

	Wood Name	Density
Least	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
Greatest	_____	_____

5. Pick the woods that have the least and greatest density. Give a use that depends upon their density.

My least Dense Wood is #__, _____Density ____Use_____

My most Dense Wood is #__, _____Density ____Use_____

6. Remember water has a density of _____.
   List any wood types that should **SINK** in water._____
   List any that should **FLOAT in water**._____