

Melting Point: The temperature at which a material melts from a solid into a liquid.

Example: Ice (solid H_2O) melts to water (liquid H_2O) at 0°C or 32°F .

Try it: Watch your teacher's demonstration of melting gallium.

Write a **sentence** explaining how

You knew the gallium had reached

Its melting point.



Density: Amount of matter per unit of volume.

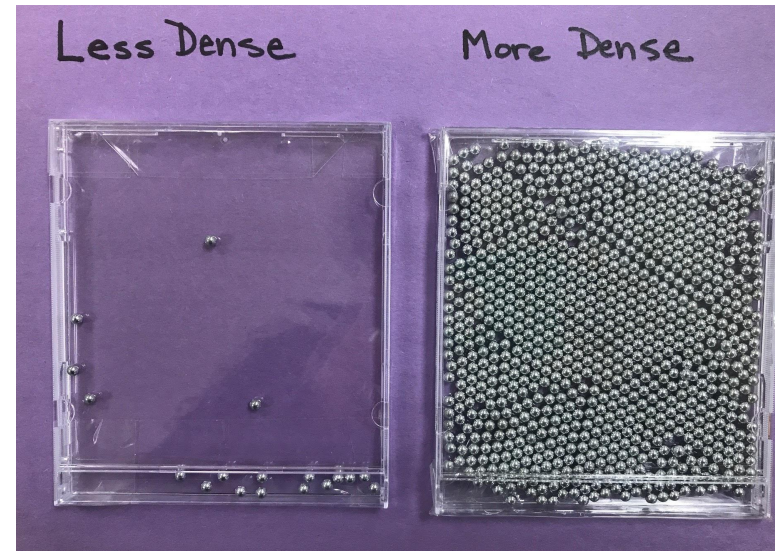
Example: Gold is extremely dense and has a density of 19.3 g/cm^3 .

Try it: CAREFULLY place the two bowling balls into the water. What do you notice?

Write a **sentence** explaining

how you can tell which

bowling ball is more dense.



Viscosity: Describes a fluid's resistance to flow.

Example: Syrup has higher viscosity than water.

Try it: Turn over the jars with different fluids and marbles in them. Time the marble falling to the bottom of the jar.

Write a **sentence** explaining which fluid is the most viscous and explain how you know.

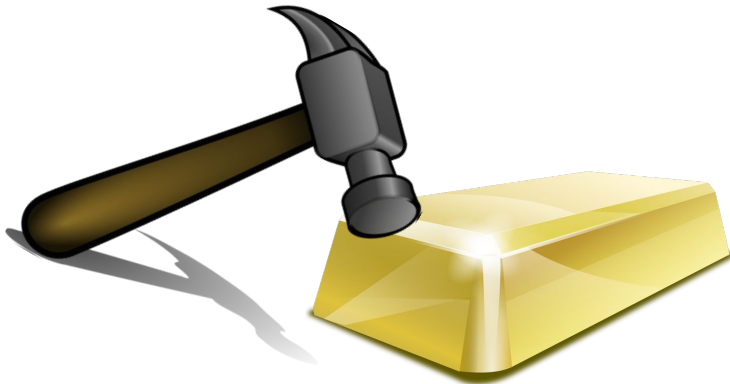


Malleability: able to be shaped by hammering or pressing.

Example: Gold is extremely malleable and can be made into thin sheets

Try it: observe the two pennies provided. One has been rolled into a souvenir medallion.

Write your own **sentence** explaining how you know aluminum is malleable.



Gold Foil



Solubility: amount that a substance will dissolve in a solvent to make a solution.

Example: Sugar has greater solubility in hot tea than in cold tea.

Try it: Which material is more soluble in water? Try stirring some of each substance into the water. What do you notice?

Write your own **sentence** comparing the solubility of sand and salt in water.



Solute

+



Solvent ----->



Solution

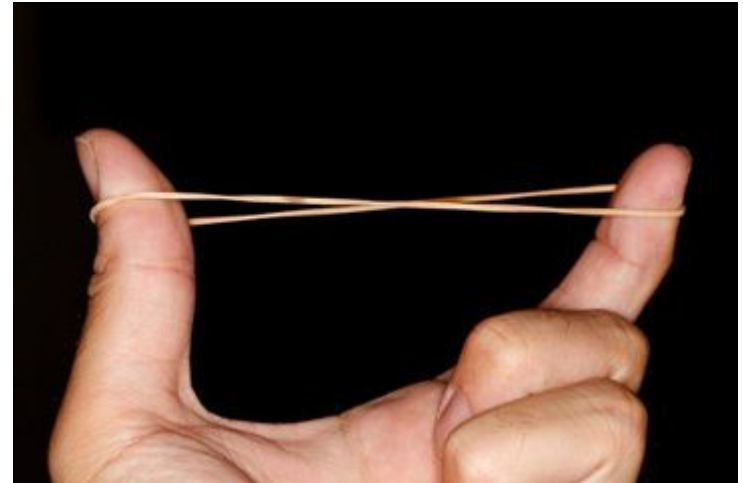
Elasticity: Ability of a material to resume its normal shape after being stretched or compressed.

Example: A rubber band has more elasticity than a piece of string.

Try it: Bounce the two spheres. Can you tell which one

Is more elastic?

Write your own **sentence** explaining how you know that one sphere has greater elasticity than another.



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