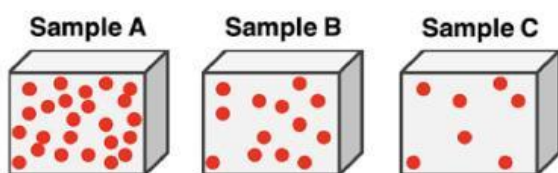


2.3 Prop & Changes of Matter

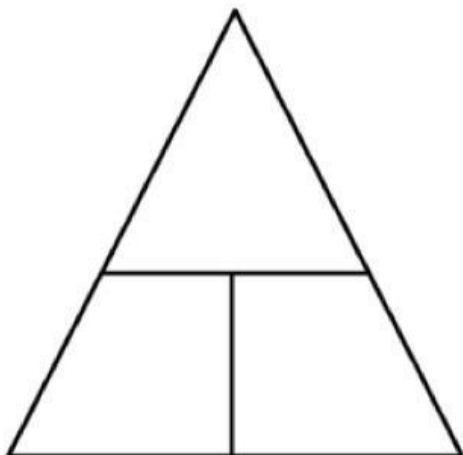
Activity 2: Density



Which has the greatest density? _____

Which has the least density? _____

Fill in the Density Triangle:



For the Unknowns on the right, calculate the missing value and then use the Table of Densities below to identify each of the unknown substances.

1. Unknown A:

Density:	Mass: 1932 g
	Volume: 100 cm ³

2. Unknown B:

Density:	Mass: 178.4 g
	Volume: 20 cm ³

3. Unknown C:

Density: 2.64 g/cm ³	Mass:
	Volume: 55 cm ³

4. Unknown D:

Density: 3.52 g/cm ³	Mass: 704 g
	Volume:

Table of Densities

Solids	Density g/cm ³	Solids	Density g/cm ³
Marble	2.56	Copper	8.92
Quartz	2.64	Gold	19.32
Diamond	3.52	Platinum	21.4

5. Now let's calculate a half size sample of Unknown A:

Density:	Mass: 966 g (half of 1932 g)
	Volume: 50 cm ³ (half of 100 cm ³)

6. Did the density change?