Unit 2: Heat and Energy in the Earth's Systems

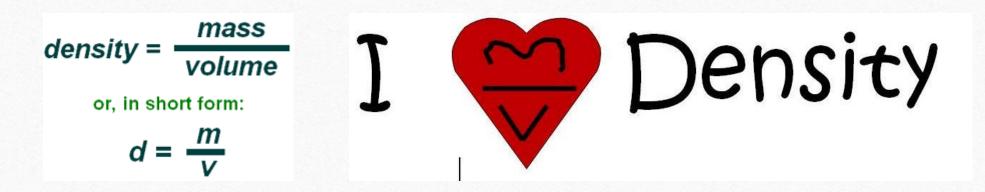
L5: How Dense is This?

<u>Guiding Question</u>: How can we determine and model the density of an object?

- <u>Do Now:</u>
 - What would hurt more, being hit with 5kg of bricks or 5kg of feathers? Justify your answer.

Notes

• <u>Density</u> is a measure of how much mass there is in a given volume



- The units for density are usually g/mL or g/cm^3 . 1 mL = 1 cm³ so the two are the same.
- Density is an *intensive property*

Notes

- <u>Intensive properties</u> are properties that do not depend on the size or the amount of matter.
 - Examples: density, melting point, and hardness
- <u>Extensive properties</u> are properties that change when the amount of matter changes
 - Examples: mass, volume, length, and shape

9/25/2017

Closure

- Homework #6 Due Friday 9/29
- Achieve 3000: These Lights are Too Cool! Due Friday 10/6 at 11:59pm