

Density – literacy task

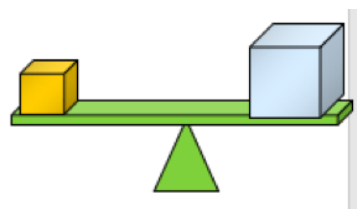
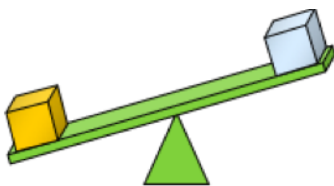
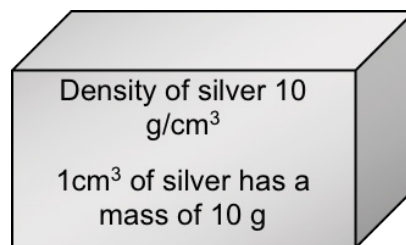
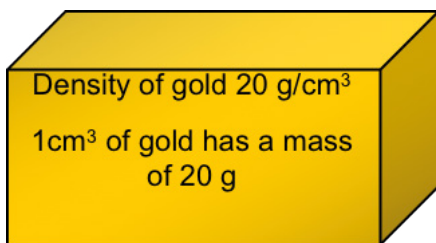
Archimedes and his contributions to Science.

Who is Archimedes?

Archimedes was a great scientist who lived more than 2000 years ago in a Greek city called Syracuse. He was very clever at inventing and figuring out how things work, so King asked for his help.

The king thought his black smith has cheated him and given him a crown made out of silver and not gold. He asked Archimedes to investigate.

Gold is more dense than silver. Archimedes does not know how to calculate the volume of the awkwardly shaped crown.



The mass of the crown was 2000g. It should have a volume of 100 cm^3



When he jumps in to the bath he sees that water is displaced, EUREKA!

The actual volume of the crown was 150cm^3 instead of 100cm^3

Was it pure gold?

Task

- ① Show through calculations whether the crown was pure gold or not.
- ② Write a method for Archimedes' way of solving the King's problem.
- ③ Give a definition of volume, mass and density.