



NAME:
DATE:

PHYSICS
DENSITY

KS3
SCIENCE

MARK	GRADE
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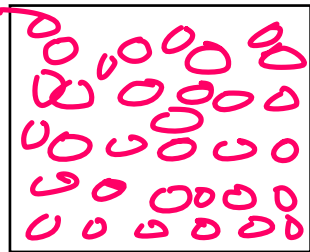
- ANSWER ALL QUESTIONS
- ALL WORKINGS MUST BE SHOWN
- USE THE CALCULATOR WHEN EXPECTED

Answer the following questions.

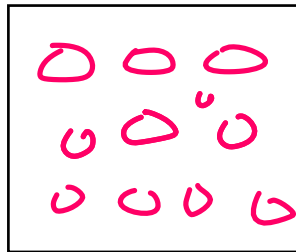
Fill in the gaps below to complete the sentences:

1. Density is the amount of per unit volume. This tell us how tightly matter is together. The unit of density is

2.



A



B

Object A has particles and therefore mass.

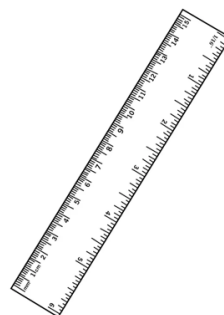
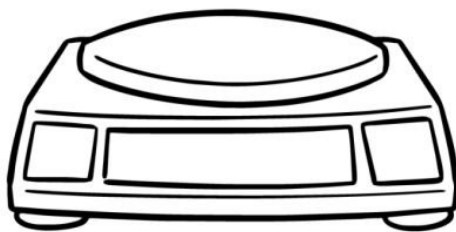
Object B has particles and therefore mass.

Which object is denser?

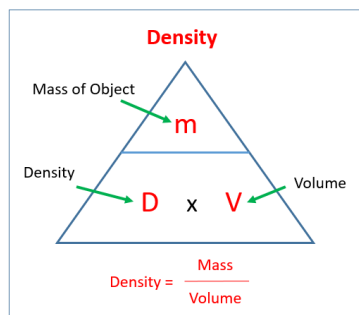
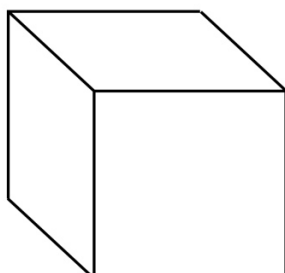
What will happen if a less dense object is placed on a denser object?

What will happen if a denser object is placed on a less dense object?

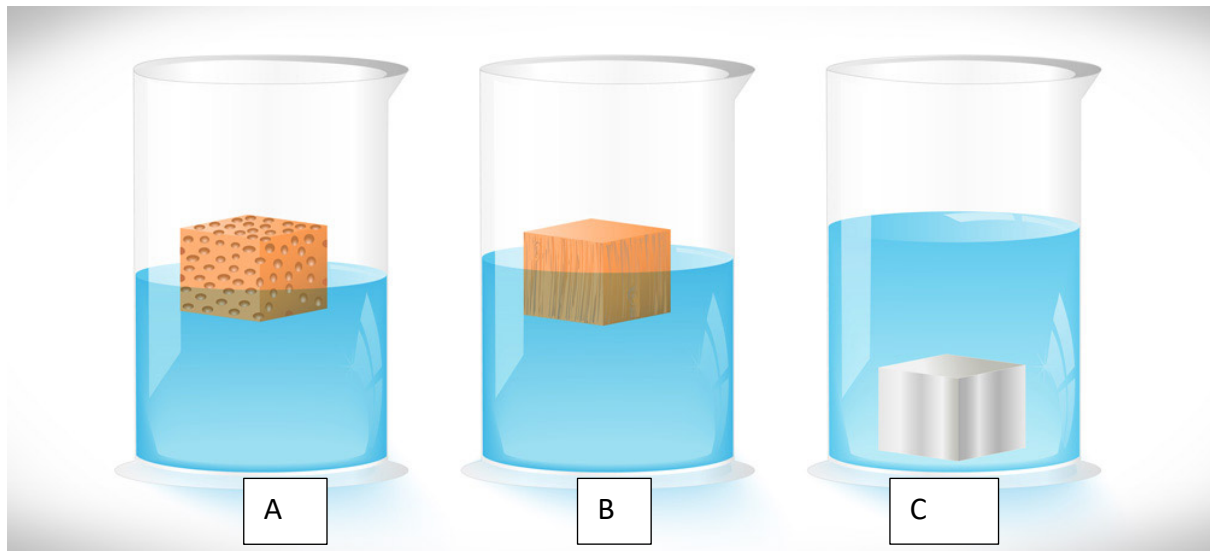
3. Explain fully how to measure the density of a cube. Using the apparatus below and the formula



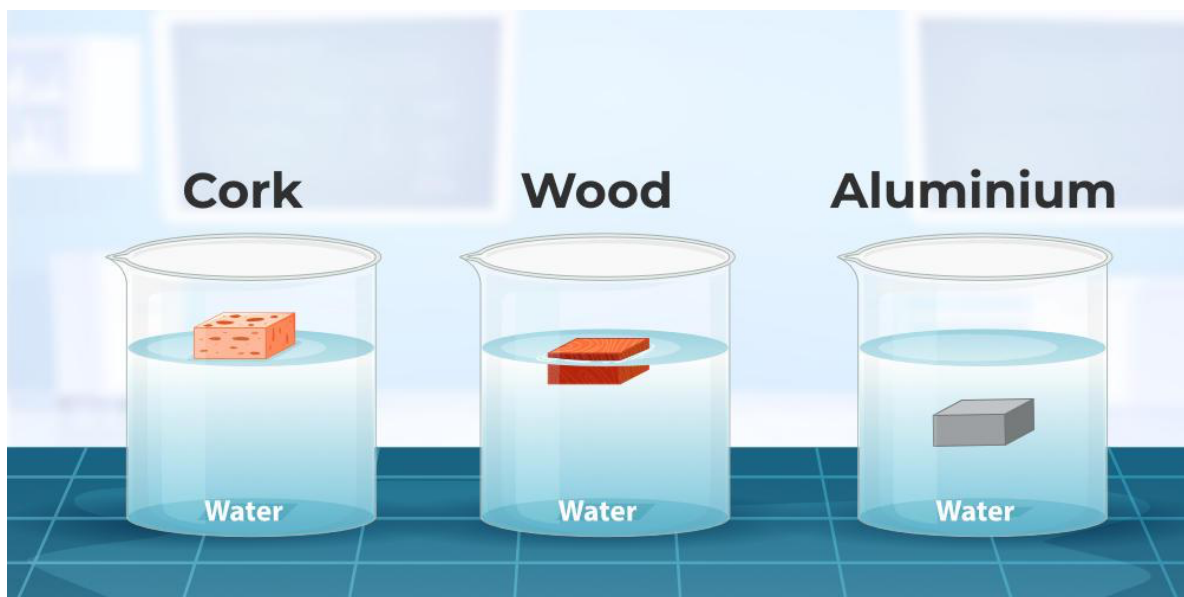
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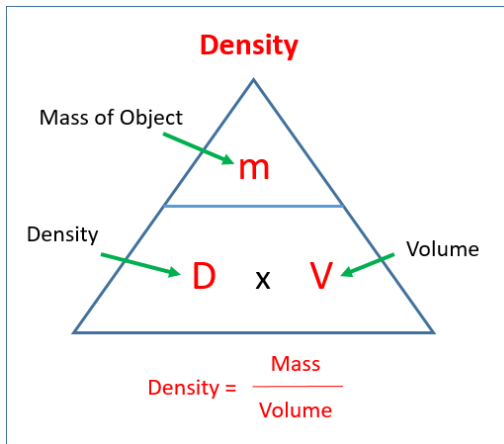
4. Arrange them from lowest to highest in terms of their density.



5. Arrange them from lowest to highest in terms of their density.



6. Use the formula to calculate the density below.



a) A piece of wood has a mass of 7g and a volume of 10cm³

b) A rod of aluminium has a mass of 575.4g and a volume of 210cm³

c) A piece of nickel has a mass of 3.48kg and a volume of 400cm³.

d) An iron statue with volume of 0.05m³ and a mass of 394kg 2.1m³ of oil with a mass of 1775kg