Density of Water:

Key Concepts:

- Just like solids, liquids have their own characteristic _____.
- The volume of a liquid can be measured directly with a _____.
- The molecules of different liquids have different _____ and _____.
- The mass and size of the molecules in a liquid and _____ _____ determine the density of the liquid.
- Just like a solid, the density of a liquid equals the _____ of the liquid divided by its _____; D = m/v
- The density of water is _____.
- The density of a substance is _____ _____.

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Density of Water – Processing

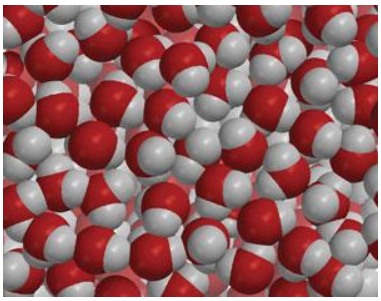
Density is a "characteristic property" of a substance. This means that the substance will have the same density no water how big or small the sample is. Would you say that density is a characteristic property of water? Why or why not?

EXPLAIN IT WITH ATOMS & MOLECULES

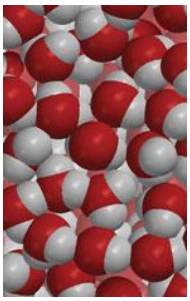
Each individual molecule has the same size and mass. The water molecules are packed very close together the same way throughout an entire sample of water.

Sample B is half the volume of Sample A.

Do the samples have the same mass?



Sample A



Sample B

Do the samples have the same density?