The Properties of Matter

Which property of matter is a measure of the gravitational force?

- A. density
- ♦B. mass
- C. volume
- D. weight

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In a graduated cylinder containing several liquid layers, the least dense liquid is found

- A. floating at the top.
- ◆B. in the middle layer.
- C. in the lightest colored layer.
- ◆D. settled at the bottom.

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Melting crayons is an example of a

- A. physical property.
- B. physical change.
- C. chemical property.
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What metric unit of density would be appropriate to describe a solid?

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- ◆C. oz/ft³
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Which physical property of matter describes the relationship between mass and volume?

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- B. ductility
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Finding Density

A liquid has a volume of 25 mL and a mass of 5 g. Calculate the density of the liquid.

Would this liquid float on top of water?

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5 / 25 = 0.20 g/mL Yes, it will float

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The saltiness of seawater is the result of this property.

- A. inertia
- B. state of matter
- C. reactivity
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Objects float or sink as a result of this property.

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- C. thermal conductivity
- D. composition

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This is the physical form in which a substance exists.

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This type of matter makes up an object and the way it is arranged.

- A. inertia
- B. composition
- C. electrolysis
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The breakdown of water to form two gases is the result of this process.

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- B. electrolysis
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When a substance will burn it is.....

- A. flammable
- B. solubility
- C. inertia
- D. composition

When a substance will burn, it is.....

- A. flammable
- ◆B. soluable
- C. inertia
- D. composition

This is the curve at the surface of a liquid.

- A. Density
- B. Reactivity
- C. Meniscus
- D. Ductility

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This is the rate at which a substance conducts heat.

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Mass = 20 g Volume = $2 \times 5 \times 8 = 80 \text{ cm}^3$ Density = $20 / 80 = 0.25 \text{ g/cm}^3$

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