

Properties of Matter Quiz PDF

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Which of the following is not a state of matter?
SolidLiquidPlasmaEnergy
How does temperature affect the state of matter? Provide an example.
 Temperature affects kinetic energy, influencing state changes. Temperature only affects gases. Temperature does not affect solids. Temperature changes do not cause phase transitions.
Explain how the measurement of mass and volume can be used to calculate the density of a substance.
 Density is calculated by dividing mass by volume. Density is the same as mass. Density is irrelevant to volume. Density can only be measured in liquids.
Which of the following are physical properties of matter? (Select all that apply)
□ Color□ Reactivity□ Density□ Flammability
Which of the following is a physical change?
○ Rust of iron

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O Burn of wood
○ Melting of ice
O Baking a cake
Which of the following are examples of chemical changes? (Select all that apply)
☐ Melting ice
☐ Burn of paper
☐ Rust of iron
☐ Dissolving sugar in water
What property measures the amount of space an object occupies?
○ Mass
○ Volume
○ Density
○ Weight
What is the measure of the average kinetic energy of particles in a substance?
○ Heat
○ Heat○ Temperature
○ Temperature
○ Temperature○ Pressure
○ Temperature○ Pressure
○ Temperature○ Pressure○ Volume
TemperaturePressureVolume What term describes the ability of a substance to burn in the presence of oxygen?
 Temperature Pressure Volume What term describes the ability of a substance to burn in the presence of oxygen? Reactivity
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 ☐ Temperature ☐ Pressure ☐ Volume What term describes the ability of a substance to burn in the presence of oxygen? ☐ Reactivity ☐ Flammability ☐ Acidity ☐ Solubility
Temperature Pressure Volume What term describes the ability of a substance to burn in the presence of oxygen? Reactivity Flammability Acidity Solubility Which properties are significant in liquids? (Select all that apply)
Temperature Pressure Volume What term describes the ability of a substance to burn in the presence of oxygen? Reactivity Flammability Acidity Solubility Which properties are significant in liquids? (Select all that apply) Surface tension
Temperature Pressure Volume What term describes the ability of a substance to burn in the presence of oxygen? Reactivity Flammability Acidity Solubility Which properties are significant in liquids? (Select all that apply) Surface tension Viscosity

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Which of the following factors affect the boiling point of a substance? (Select all that apply)



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Atmospheric pressure
☐ Temperature
Volume
☐ Intermolecular forces
Explain why density is considered a physical property of matter.
O It can be measured without changing the substance's chemical identity.
O It describes the color of the substance.
Olt is only relevant for liquids.
O It is a measure of temperature.
Describe the difference between a physical change and a chemical change, providing an example of each.
 Physical change alters form without changing composition; chemical change forms new substances.
Physical change is reversible; chemical change is not.
Physical change involves temperature change; chemical change does not.
Physical change occurs in solids only; chemical change occurs in liquids only.
— — — — — — — — — — — — — — — — — — —
What role do intermolecular forces play in determining the properties of liquids?
Intermolecular forces determine properties like surface tension and viscosity.
 Intermolecular forces only affect gases.
O Intermolecular forces are irrelevant to liquid properties.
O Intermolecular forces only affect solids.
Discuss how the concept of reactivity is important in chemical reactions.
Reactivity indicates how readily a substance undergoes chemical changes.
Reactivity is only relevant for gases.
Reactivity does not affect reaction products.
Reactivity is the same for all substances.
What is the definition of matter?
Anything that has mass and occupies space
O Anything that is visible to the naked eye
Anything that can be touched
Anything that is in liquid form

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Which property is measured in grams per cubic centimeter (g/cm³)?
○ Volume○ Mass
O Density
○ Temperature
Which states of matter have a definite volume? (Select all that apply)
Solid
☐ Liquid
☐ Gas
☐ Plasma
What is the smallest unit of an element?
○ molecule
○ Atom
○ Compound
○ Mixture
Which tools are commonly used to measure the properties of matter? (Select all that apply)
Balance
☐ Thermometer
☐ Microscope
Graduated cylinder