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## GVC 8.1 Matter Review

A public quiz for schools

Play

Challenge

#Matter Final


Copy and share this playable link

<https://play.kahoot.it/#/?quizId=08ebfe60-7958-476c-ac64-bf1d4ee659e7>

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### Questions (30)

**Q1:** What do scientists call a PURE substance that is made of only ONE kind of atom?

 Atom

 Compound

 Element

 Nucleus

**Q2:** What part of the atom orbits the nucleus and has a negative charge?

 Proton

 Neutron

 Electron


 Nucleus

**Q3:** What do scientists call a substance that is made of two or more atoms bonded together?

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(/I/#)  Atom

---

 Electron

---

 Molecule

---

 Proton

---

**Q4:** Which illustration is an example of an **ATOM**?

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 A

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 B

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 C


---

 D

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**Q5:** Early chemists thought the parts of the atom were spread evenly throughout the atom we now know


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 That it is shaped like a cube


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 Most of the atoms' particles are in the outer layer.

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 It has most of its mass in the center

---

 Atoms are holding still


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**Q6:** Which of these tests measured **chemical** properties?

---

 physical description and reaction to heat

---

 reaction to water and physical description

---

 physical description and reaction to acid

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reaction to acid and reaction to heat

**Q7:** The statement "The lead pipe corrodes in water" is an example of a

Physical Property

Chemical Property

**Q8:** Which of the statements would be an inference about a chemical property?

The substance forms into thin flat sheets

The substance forms into thin flat sheets

The substance will get smaller

The substance looks like it will react in acid easily

**Q9:** Which of the following is true of **chemical** properties?

They describe the phase the substance is in

They explain how the substance reacts with other substances

Describe characteristics of a substance such as size & color

Describe qualities of the substance that can be observed

**Q10:** You mix two colorless liquids together. After a few minutes the liquid has turned purple.

(/I/#) ▲ A **physical** change has taken place a **MIXTURE** has formed

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◆ A **chemical** change has taken place a **NEW** substance has formed

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Q11: Which of the following is an example of a chemical change?

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▲ Baking soda in vinegar

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◆ Bending steel

---

● Magnet in water

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■ Sawing a board

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Q12: If **FOUR carbon** atoms are in the reactant, how many **carbon** atoms will be found in the product?

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▲ 1

---

◆ 2

---

● 3

---

■ 4

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Q13: As Terry and Jean poured melted chocolate over their ice cream they noticed that it became hard

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▲ The chocolate changed phases, physical change

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◆ The chocolate changed phases, chemical change

---

● The chocolate changed into a new substance, physical change

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■ The chocolate changed into a new substance, chemical change

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(///#)

**Q14:** "Ice is a solid." This statement is a \_\_\_\_\_.

Physical property

Chemical property

**Q15:** When heat is removed from a substance, what happens to the motion of the particles?

They slow down

They speed up

They stay the same

**Q16:** Which best explains why a substance changes from a liquid to a gas when heated?

Molecules move faster and they move farther apart

Molecules get closer together and become more dense.

Molecules of water change to hydrogen and oxygen

**Q17:** Methane melts at  $-182$  (c) and a boils at  $-162$  (c). What STATE is Methane in at  $1000$  (c)?

Solid

Liquid

Gas

**Q18:** What phase change is happening at D?

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 Melting

---

 Sublimating

---

 Boiling

---


 Deposition

---

**Q19:** When a substance goes from a liquid to a gas, it is called

\_\_\_\_\_.

---

 Boiling

---

 Melting

---

 Sublimating


---

 Freezing


---

**Q20:** Both natural products and synthetic products come from natural resources. Explain


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 all products come from natural substances found on Earth

---

 scientists can not make products in a laboratory

---

 humans only use natural products

---

 synthetic products can only be made from synthetic products

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**Q21:** What natural resource is glass made from?

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 Tree bark

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(///#)  Petroleum

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 Sand

---

 Limestone

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**Q22:** Which of the following makes something **synthetic**.

 It grows on a tree


---

 It is mined from the earth

---

 It is found in fruit

---

 It is made in a laboratory

---


**Q23:** Which of the following is a synthetic fiber?

 Cotton

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 Wool

---

 Nylon

---

 Linen

---

**Q24:** What type of heat transfer is letter A?

 convection

---

 conduction

---


 radiation

---


(/I/#)

**Q25:** Natural fibers could come from \_\_\_\_\_.

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 Plants and animals


---

 created atomic structures

---

 laboratory chemicals

---

 synthetic minerals

---

**Q26:** Which type of heat can travel through a vacuum (space)?

---

 Convection

---

 Conduction

---

 Radiation

---

**Q27:** Which item would be the best conductor of heat?

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 Aluminum Pan

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 Wood Block

---

 Plastic Pipe


---

 Wooden Tire

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**Q28:** The Jones family is going camping, they put all refrigerated items in a styrofoam cooler. Why?

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 Because Styrofoam will REDUCE heat transfer.

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(///#)  Because they like their sandwiches warm.

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 Because Styrofoam will INCREASE heat transfer.

---

 Because they wont be gone for long.

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**Q29:** Jacob enjoys laying by his pool and soaking up some sun. What type of heat transfer is this?

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 Convection

---

 Conduction

---

 Radiation

---

**Q30:** Which reflects the "conservation of mass"?

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 products = reactants

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 products > reactants

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 products < reactants

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