

01



You turn a doorknob to open the door. Which simple machine is helping you?

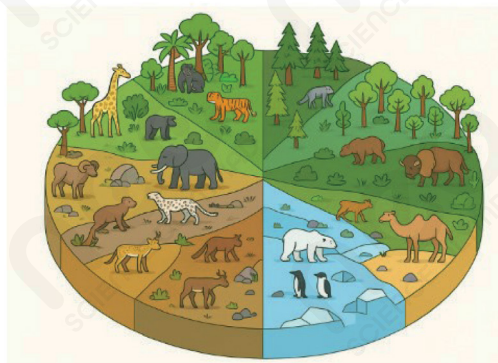
- A) A wedge
- B) A wheel and axle
- C) A screw
- D) A pulley

02

Which of the following is a solid at room temperature?

- A) Juice in a bottle
- B) Steam from a kettle
- C) A pencil on the desk
- D) Honey on a spoon

03



Each section in the image shows animals living in different environments (deserts, forests, tundra, and grasslands). What is the most likely reason the animals and plants in each section are different?

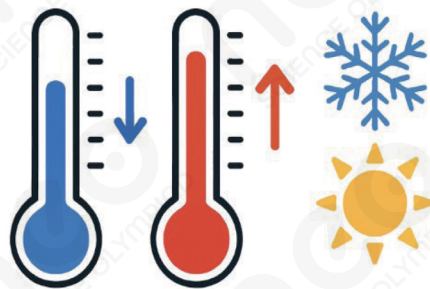
- A) Animals and plants choose where they want to live randomly
- B) Each environment has unique climate and conditions that support specific adaptations
- C) All environments are actually the same and animals just look different
- D) Only the plants decide where animals live

04

The Moon does not make its own light. Why do we see the Moon shining in the sky?

- A) The Moon is glowing with heat
- B) The Sun's light reflects off the Moon's surface
- C) Stars shine on the Moon to make it bright
- D) The Moon lights itself up at night

05



Which instrument do scientists use to measure air temperature?

- A) Barometer
- B) Thermometer
- C) Rain gauge
- D) Compass

06



You place a metal spoon in a hot cup of tea. After a minute, the spoon feels warm. What type of thermal energy transfer between the tea and the spoon has occurred?

- A) Electrical
- B) Sound
- C) Conduction
- D) Radiation

07

Which of the following is a producer (autotroph) in an ecosystem?

- A) A rabbit
- B) A mushroom
- C) A lion
- D) A green plant

08

Which option shows the correct order of energy flow in a simple food chain?

- A) Predator → Sun → Plant
- B) Plant → Sun → Herbivore
- C) Sun → Plant → Herbivore
- D) Herbivore → Plant → Sun

09



Dry ice turns directly into a gas at normal atmospheric pressure without becoming liquid. What type of change is this?

- A) Condensation
- B) Evaporation
- C) Freezing
- D) Sublimation

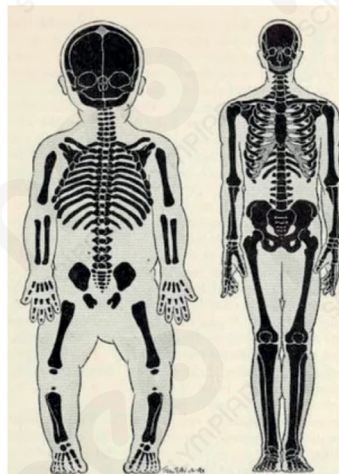
10



On a stove, an open pot of water is boiling at sea level. Several potatoes are fully submerged in the boiling water. After several minutes, which statement is most accurate?

- A) The potatoes' centers quickly exceed 100 °C
- B) The potatoes' surfaces are near 100 °C, but their centers are still below 100 °C; in an open pot they won't exceed 100 °C
- C) The potatoes' centers reach 100 °C before the surface
- D) The potatoes remain near room temperature

11



What happens to the number of bones in the human body from birth to adulthood?

- A) Adults have more bones than babies
- B) Babies and adults have the same number of bones
- C) Babies have more bones than adults
- D) Adults lose all their bones and grow new ones

12

You're assembling a wagon. You need to lift the heavy wagon bed straight up and keep the frame from rolling while you pull. Which simple machines work together to make this happen?

- A) Inclined plane and screw
- B) Pulley and wedge
- C) Lever and screw
- D) Wheel and axle

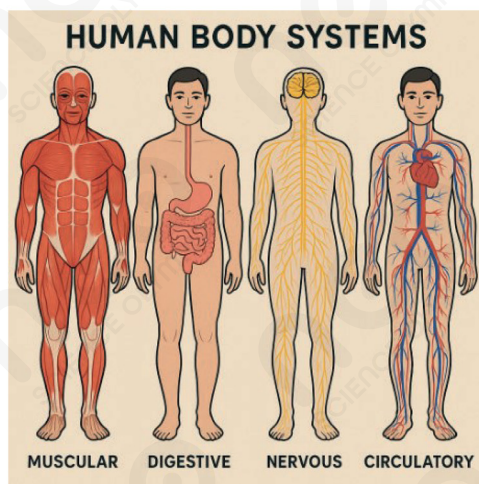
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Which state of matter has particles that move freely and are far apart?

- A) Solid
- B) Liquid
- C) Gas
- D) Plasma

14



Match each human body system to its main function.

Body Systems

- 1. Muscular System
- 2. Digestive System
- 3. Nervous System
- 4. Circulatory System

Functions

- A. Sends signals through the body
- B. Moves the body
- C. Breaks down food for energy
- D. Transports blood, oxygen, and nutrients throughout the body

- A) 1B, 2C, 3A, 4D
- B) 1D, 2C, 3A, 4B
- C) 1A, 2C, 3D, 4B
- D) 1C, 2B, 3A, 4D

15



Plastic is used in many things, like bottles, bags, and packaging. But when plastic is thrown away and not recycled, it can end up in the ocean and harm animals like turtles and fish. What is one good reason to use less plastic and recycle more?

- A) Because plastic makes animals stronger
- B) To keep the environment cleaner and help protect wildlife
- C) So we can throw more things in the ocean
- D) Because plastic disappears in a few days

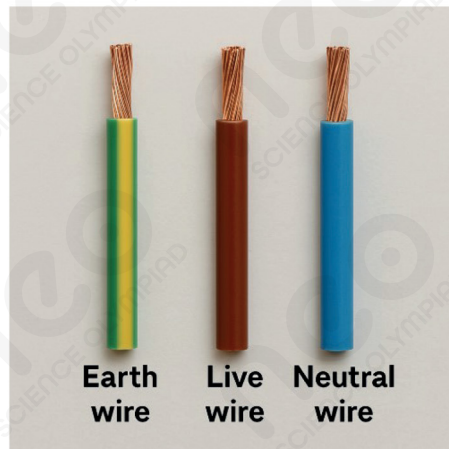
16



When vinegar is mixed with baking soda, it bubbles and creates a gas. Which observation is evidence of a chemical reaction?

- A) The mixture freezes into ice
- B) Nothing changes at all
- C) Bubbles form and a gas is released
- D) The solid just breaks into smaller pieces without any bubbles

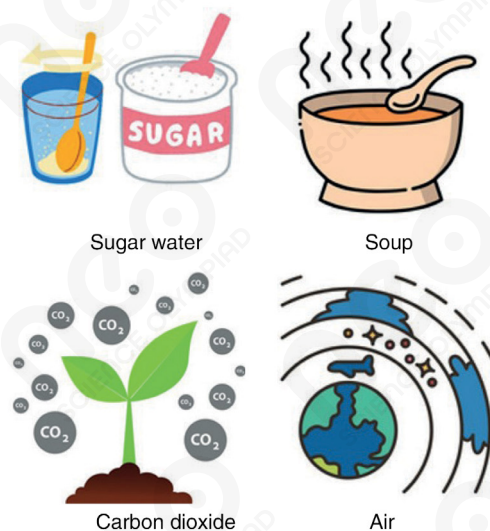
17



Why is it important that large household appliances such as refrigerators are connected to the ground (earth) wire?

- A) To reduce the amount of current used by the appliance
- B) To provide a safe, low-resistance path for fault current to ground so the fuse or circuit breaker trips
- C) To improve the efficiency of the appliance
- D) To ensure the appliance always receives maximum voltage

18



Which of the substances in the image above is not a mixture?

- A) Sugar water
- B) Soup
- C) Carbon dioxide(CO₂)
- D) Air

19

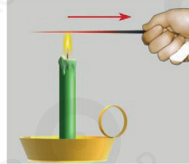
Which of these methods of heat transfer is the most obscure (least noticeable) form that everyone experiences every day?

A)



Convection

B)



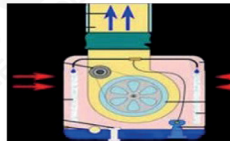
Conduction

C)



Radiation

D)



Convection in gases

20



Large hydropower projects (big dams and reservoirs) are common in many countries. What is a major environmental challenge associated with building them?

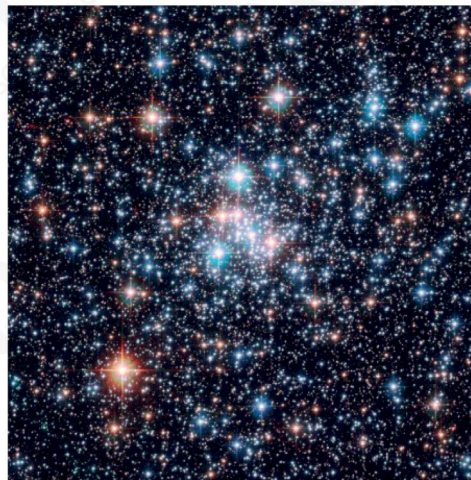
- A) Water pollution
- B) Scarcity of water
- C) Depletion of the ozone layer over the region
- D) Destruction and fragmentation of aquatic habitats (for example, blocking fish migration)

21

You are pulling a wagon with books in it. Then you add more books. What will you notice when you try to pull it again (on the same surface)?

- A) It feels lighter and moves faster
- B) It takes more force to pull because of the added weight
- C) The books float and help it move
- D) The wagon uses less energy because it's full

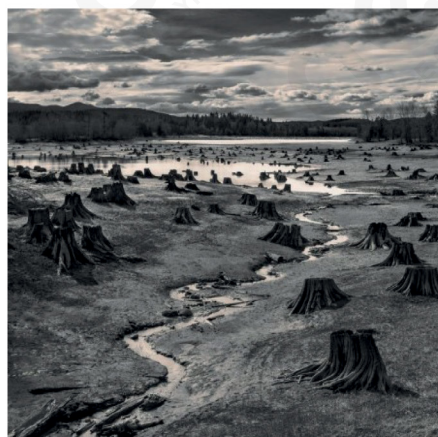
22



Which statement best describes a star?

- A) A large ball of rock that orbits a star
- B) A planet that shines in the dark
- C) A hot ball of gas that gives off its own light and energy
- D) A cloud of gas and dust in space

23



What is one long-term effect of large-scale deforestation (cutting down too many forests)?

- A) Cleaner air
- B) More animal species
- C) Increase in rainfall
- D) Less biodiversity and more atmospheric carbon dioxide

24

Which statement best explains why elements in the same group (column) of the periodic table have similar chemical properties?

- A) They have the same number of protons in the nucleus.
- B) They have the same number of neutrons in the nucleus.
- C) They have the same number of electrons in their outermost (valence) shell.
- D) They have the same atomic mass

25



Why does Earth support life, while Venus and Mars do not (as far as we know)?

- A) Earth is closer to the Sun than Venus.
- B) Earth has a suitable atmosphere and liquid water.
- C) Earth's surface is covered entirely by land.
- D) Earth has more moons than Venus and Mars.

Answer Key

1	B
2	C
3	B
4	B
5	B
6	C
7	D
8	C
9	D
10	B
11	C
12	B
13	C
14	A
15	B
16	C
17	B
18	C
19	D
20	D
21	B
22	C
23	D
24	C
25	B