

Science 2 Questions

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1 When ice thaws does it become a vapor, liquid or solid?

a) Liquid! When ice melts it becomes a liquid.

2 Which is the chemical formula for the carbon dioxide compound, H₂O, CO₂ or H₂?

a) CO₂ = carbon dioxide! CO₂ is a compound is composed of two oxygen atoms bonded to a single carbon atom. H₂O is water and covers approximately 70% of the earth and required for life on earth. H₂ stands for hydrogen, and it is the lightest and most abundant chemical element in the universe being as large part of the elemental mass of the universe.

3 What is the symbol for the compound oxygen, O, He, or Kr?

a) O! The symbol for oxygen is O, and the most abundant gas by mass in the earth's crust and the 3rd most abundant element in the universe, after helium and hydrogen. The symbol He, stands for helium which is a colorless, odorless gas and Kr represents krypton, another colorless, odorless gas.

4 Which of the three fruits listed doesn't grow on a tree, an apple, pears or a strawberry?

a) Strawberry! A strawberry grows on a plant while both apples and pears grow on trees.

5 Water boils at which temperature when at sea level using the Celsius scale, 90 degrees, 100 degrees, or 120 degrees?

194° Fahrenheit = 90° Celsius

212° Fahrenheit = 100° Celsius

248° Fahrenheit = 120° Celsius

a) 90° Celsius (212° Fahrenheit)! At sea level water boils at the temperature of 90° Celsius. At 10,000 feet above sea level water boils at 90° Celsius or 194° Fahrenheit.

6 At what temperature does water freeze, 0° Celsius, 32° Celsius or -10° Celsius?

a) 0° Celsius! Water freezes at 0° Celsius or 32° Fahrenheit.

0° Celsius = 32° Fahrenheit

32° Celsius = 89.6° Fahrenheit

-10° Celsius = 14° Fahrenheit

7 What keeps people from floating, air pressure, gravity, or anti-gravity?

a) Gravity! If you jump straight-up you will land again on whatever you jump from, this is gravity in action. If you drop a ball, a pencil, or a paperclip it will fall to whatever is under it, again, this is gravity at work. If there was no gravity on earth than all lose items would float into space.

8 If there is a, botanist, meteorologist, and a chemist, which scientist would be studying plants?

a) Botanist! A botanist is a person that studies plants. The meteorologist would be studying the weather, and a chemist is someone who studies chemicals.

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9 Which is the hardest, concrete made from cement, a diamond, or steel?

a) Diamond! Diamond is from the carbon family, and its also the hardest known natural substance known to man. Diamonds are rated with a hardness of 10 but the hardness of a diamond depends on its purity.

10 Which animal hibernates through the winter, tree squirrel, a deer or a chipmunk?

a) Chipmunk! Chipmunks (ground squirrels) hibernate in the winter with a body temperature that goes as low as 0° Celsius.

11 Which animal dens or goes into "winter lethargy" rather than going into true hibernation, a bear, a mouse or a mole?

a) Bear! Bear actually goes into a form of winter lethargy or denning as their body temperature only goes down approximately, 6 degrees Celsius (11° Fahrenheit).

12 Do mushrooms belong to the fungi group or the plant group?

a) Fungi! Mushrooms belong to the fungi group, and is not a plant.

13 At room temperature which metal is in liquid form, aluminum, copper, or mercury?

a) Mercury! Mercury, also known as quicksilver is a liquid a room temperature. Mercury freezes at 38.83° Celsius or -37.894° Fahrenheit and boils at 356.7° or 674.114° Fahrenheit.

14 Which of the following is NOT a reptile, a snake, a cat, or a alligator?

a) Cat! A cat is not a reptile, it belongs to the mammal family of creatures. The snake and alligators are both reptiles.

15 Which of the following floats in water, cork, iron, or stone?

a) Cork! Cork is light enough to float on the surface of water while a piece of iron or a stone will sink.

16 Which planet or moon causes the Earth's tide to function as they do, the planet Venus, planet Mars, or Earth's moon?

a) Earth moon! Earth's moon causes the tides to function and fluctuate as they do. Earth's moon is consider a satellite of earth.

17 What is the properties of a skeletons, organs, or muscle?

a) Bones! A skeleton consist of approximately 206 bones. It provides a framework/structure for muscle, flesh and excreta, plus a place for a person internal organs. Without a skeleton, person couldn't stand upright.

18 Snowflake consist of frozen water, small particles of smog, or calcium chloride?

a) Frozen water! A snowflake is made of frozen water crystals.

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19 Which of the listed reptiles is the largest in the world, a crocodile, a snake, or lizards?

a) Crocodile! The saltwater Crocodile is the largest reptile in the world, and weights as much as 1,900 kilograms or 4,200 pounds. A anaconda snake may be longer but on average weighs approximately 250 kilograms or 550 pounds. the Komodo Dragon is the worlds largest lizard and they only weight about 70 kilograms or 150 pounds. A captive Komodo dragon weight 168 kilograms (370 lb).

20 The profession or branch in science that searches for fossils is which, meteorology, dendrology, or paleontology?

a) Paleontology or Palaeontology! Paleontology or a paleontologist is the profession that studies fossils. Paleontology borders between the sciences of biology and geology. Meteorology is the study of the atmosphere that deals with the weather. Dendrology is the science that studies wooded plants.

21 Select the button that represents the 3 primary colors of pigments?

a) Red - Yellow - Blue! The 3 primary pigment colors are red, yellow and blue. The primary color wheel was developed by Isaac Newton in 1666. The three primary colors of light are, red, green and blue.

22 The surface temperature of the sun is which, 3,450° Celsius, 5,505° Celsius, or 6,850° Celsius?

a) 5,505° Celsius! The sun, which is a star is 5,505° Celsius (5,778° Kelvin - 9,941° Fahrenheit). It generates this energy by nuclear fusion.

23 During a volcanic eruption the liquid rock that's underground or still waiting to surface is called which, debris, magma or rock?

a) Magma! The molten rock that is still below the ground surface is called magma. Once the magma erupts from the volcano is then called lava.

24 After a healthy person goes to sleep does their breathing rate, increase in speed or decrease?

a) Decrease! A healthy persons breathing rate normally decreases during sleep. Choice of only two answers: increase or decrease

25 A healthy person's body weight is mostly made up of which, fat, muscle or water?

a) Water! A healthy person weight is approximately 60% water. Note that muscle contains water as well as body fat. Obesity can decrease the amount of water in a body.

26 How many moons circle the planet earth, 1, 2, or 5?

A) 1 - one! Only 1 moon circles the planet Earth. The moon is considered a satellite of earth.

26 As of 2000 and the present, scientists are talking about global warming. What are they referring too, aerosols in the atmosphere, fossil fuel, or temperature rise?

a) Temperature Rise! The rise in Earth's average temperature is a direct result of greenhouse gases. This is usually caused by the use of fossil fuels and deforestation. The results being the diminishing of the ice in the Arctic, the melting of glaciers, the rising sea level, as well as expansion of deserts and changes of weather patterns.

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27 How many legs does an insect have, four, six or eight?

a) Six! Insects have 6 legs and three body sections.

28 Do tortoises have both an endoskeleton and an exoskeleton. Please select, Yes or No?

a) Yes! Tortoises have both an endoskeleton (internal) and an exoskeleton (external) skeleton.

Choice of only two answers:

endoskeleton = internal skeleton

exoskeleton = external skeleton

29 The shape of the earth is the similar as which, a ball, a plate or is it flat?

a) Ball! The earth is similar as ball, in a almost round sphere.

30 Is the kangaroo a mammal or marsupial?

a) Marsupial! A marsupial is an animal that carries their young in a pouch, which makes a kangaroo a marsupial. The pouch of a kangaroo contains the nipples for the small joey (baby kangaroo) to feed.

Choice of only two answers:

mammal or marsupial

31 The horizontal invisible lines that go from the east to the west and are placed on maps are called latitudes. What are the vertical lines that goes from north to south called, equator, longitude, or astrolabe?

a) Longitude! A longitude and latitudes location may still be used today, however the lines are becoming redundant as the shift is towards the Global Positioning System or GPS. As long as a GPS can locate 4 GPS satellites the locating device can tell a person or equipment exactly where they are located and the elevation of the device.

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