

2cool4school - Grade 5 Science Worksheet

Q1 - Science - Lab tools and equipment

What is the primary use of a microscope in the laboratory?

1. To measure liquids
2. To observe tiny specimens
3. To heat chemicals
4. To mix solutions

Q2 - Science - Lab tools and equipment

Which laboratory equipment is used to hold and mix liquids, often having a spout for pouring?

1. Beaker
2. Test tube
3. Bunsen burner
4. Microscope

Q3 - Science - Lab tools and equipment

What tool would you use to measure the exact volume of a liquid?

1. Test tube
2. Volumetric flask
3. Bunsen burner
4. Magnifying glass

Q4 - Science - Lab tools and equipment

Which piece of equipment produces a single open flame for heating substances in the lab?

1. Bunsen burner
2. Beaker
3. Test tube
4. Volumetric flask

Q5 - Science - Lab tools and equipment

Which equipment is used to protect the eyes during experiments?

1. Beaker
2. Safety goggles
3. Test tube

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4. Bunsen burner

Q6 - Science - Lab tools and equipment

What is the purpose of a test tube in the laboratory?

1. To observe tiny specimens
2. To hold, mix, or heat small amounts of substances
3. To measure exact volumes
4. To magnify small objects

Q7 - Science - Lab tools and equipment

Which tool is used to measure temperature in experiments?

1. Thermometer
2. Bunsen burner
3. Beaker
4. Test tube

Q8 - Science - Lab tools and equipment

Which tool is used to measure the volume of liquids accurately?

1. Beaker
2. Graduated Cylinder
3. Test Tube
4. Bunsen Burner

Q9 - Science - Lab tools and equipment

What equipment is used to heat substances in the lab?

1. Bunsen Burner
2. Microscope
3. Petri Dish
4. Thermometer

Q10 - Science - Lab tools and equipment

Which instrument is used to measure temperature in experiments?

1. Barometer

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2. Thermometer
3. Stopwatch
4. Balance Scale

Q11 - Science - Lab tools and equipment

Which tool is used to measure the volume of liquids accurately?

1. Beaker
2. Graduated Cylinder
3. Test Tube
4. Bunsen Burner

Q12 - Science - Lab tools and equipment

What equipment is used to heat substances in the lab?

1. Bunsen Burner
2. Microscope
3. Petri Dish
4. Thermometer

Q13 - Science - Lab tools and equipment

What is a microscope used for?

1. Measuring liquid
2. Observing tiny objects
3. Heating substances
4. Weighing materials

Q14 - Science - Lab tools and equipment

What is the purpose of a test tube?

1. Holding small amounts of liquid
2. Measuring mass
3. Cutting materials
4. Producing heat

Q15 - Science - Lab tools and equipment

Which lab equipment is used to hold or mix chemicals?

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1. Flask
2. Pipette
3. Bunsen Burner
4. Microscope

Q16 - Science - Science 5 -

What stage of the water cycle involves water turning into vapor?

1. Condensation
2. Collection
3. Evaporation
4. Precipitation

Q17 - Science - Science 5 -

What is the main difference between weather and climate?

1. Weather is always predictable
2. Climate is long-term, weather is short-term
3. They are the same
4. Climate changes daily

Q18 - Science - Science 5 -

What tool is used to measure mass?

1. Anemometer
2. Thermometer
3. Barometer
4. Balance

Q19 - Science - Science 5 -

Which organ pumps blood throughout the body?

1. Lungs
2. Liver
3. Brain
4. Heart

Q20 - Science - Science 5 -

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What state of matter takes the shape of its container?

1. Plasma
2. Solid
3. Liquid
4. Gas

Q21 - Science - Science 5 -

Which system breaks down food into nutrients?

1. Respiratory system
2. Digestive system
3. Excretory system
4. Nervous system

Q22 - Science - Science 5 -

Which is an example of extreme weather?

1. Drizzle
2. Hurricane
3. Mild sunshine
4. Breeze

Q23 - Science - Science 5 -

What does the law of conservation of energy state?

1. Energy disappears
2. Energy is always increasing
3. Energy cannot be created or destroyed
4. Energy is only in machines

Q24 - Science - Science 5 -

Which vitamin helps strengthen the immune system?

1. Vitamin C
2. Vitamin A
3. Vitamin K
4. Vitamin D

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Q25 - Science - Science 5 -

What type of cloud is fluffy and white?

1. Cirrus
2. Cumulus
3. Stratus
4. Nimbus

Q26 - Science - Science 5 -

What is the function of the respiratory system?

1. Movement
2. Digestion
3. Breathing
4. Circulation

Q27 - Science - Science 5 -

What causes wind to blow?

1. Ocean waves
2. Differences in air pressure
3. Earthquakes
4. Mountains

Q28 - Science - Science 5 -

What organ removes waste from the body?

1. Heart
2. Lungs
3. Kidney
4. Brain

Q29 - Science - Science 5 -

What tool measures temperature?

1. Barometer
2. Anemometer
3. Thermometer

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4. Hygrometer

Q30 - Science - Science 5 -

Which is a renewable energy source?

1. Coal
2. Oil
3. Solar
4. Natural gas

Q31 - Science - Classification

Which kingdom do mushrooms belong to?

1. Fungi
2. Plantae
3. Animalia
4. Protista

Q32 - Science - Classification

Which characteristic is unique to birds?

1. Live Birth
2. Scales
3. Feathers
4. Slimy Skin

Q33 - Science - Classification

Which kingdom includes organisms that can make their own food through photosynthesis?

1. Plantae
2. Fungi
3. Animalia
4. Monera

Q34 - Science - Classification

Which group of animals is characterized by having scales and laying eggs?

1. Reptiles

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2. Mammals
3. Amphibians
4. Birds

Q35 - Science - Classification

In which kingdom would you classify bacteria?

1. Protista
2. Monera
3. Fungi
4. Plantae

Q36 - Science - Classification

Which kingdom includes single-celled organisms with a nucleus?

1. Protista
2. Monera
3. Fungi
4. Plantae

Q37 - Science - Classification

What do we call animals that eat only plants?

1. Omnivores
2. Carnivores
3. Herbivores
4. Scavengers

Q38 - Science - Classification

Which of the following is cold-blooded?

1. Fish
2. Dog
3. Elephant
4. Human

Q39 - Science - Classification

Which of the following is NOT a characteristic of mammals?

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1. Having hair or fur
2. Laying eggs
3. Producing milk
4. Warm-blooded

Q40 - Science - Classification

What is the main characteristic of mammals?

1. They have gills
2. They lay eggs
3. They produce milk
4. They have feathers

Q41 - Science - Classification

What is the smallest unit of classification?

1. Species
2. Kingdom
3. Class
4. Order

Q42 - Science - Classification

Which kingdom is known for its ability to decompose organic material?

1. Plantae
2. Fungi
3. Animalia
4. Protista

Q43 - Science - Classification

Animals with a backbone are classified under which group?

1. Vertebrates
2. Invertebrates
3. Arthropods
4. Mollusks

Q44 - Science - Classification

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Which of these animals is an invertebrate?

1. Eagle
2. Snake
3. Jellyfish
4. Frog

Q45 - Science - Classification

Which kingdom includes single-celled organisms with a nucleus?

1. Protista
2. Monera
3. Fungi
4. Plantae

Q46 - Science - Animals

What is the primary function of a bird's beak?

1. Eating food
2. Flying
3. Swimming
4. Sleeping

Q47 - Science - Animals

Which type of beak is best suited for cracking seeds?

1. Hooked beak
2. Chisel-shaped beak
3. Cone-shaped beak
4. Flat beak

Q48 - Science - Animals

Why do carnivores have sharp teeth?

1. For chewing plants
2. For gripping and tearing meat
3. For storing food
4. For making sounds

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Q49 - Science - Animals

Which of the following animals has no teeth?

1. Shark
2. Eagle
3. Turtle
4. Snake

Q50 - Science - Animals

Which type of feet help birds perch on branches?

1. Webbed feet
2. Talons
3. Clawed feet
4. Zygodactyl feet

Q51 - Science - Animals

What is an example of a physical adaptation?

1. Hibernation
2. Migration
3. Camouflage
4. Hunting in groups

Q52 - Science - Animals

Which is a behavioral adaptation?

1. Thick fur
2. Sharp claws
3. Hibernation
4. Gills for breathing

Q53 - Science - Animals

Why do ducks have webbed feet?

1. To walk on land
2. To help them swim
3. To catch prey

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4. To fly faster

Q54 - Science - Animals

How do strong hind limbs help frogs?

1. To swim better
2. To catch prey
3. To jump far
4. To hide from predators

Q55 - Science - Animals

Why do cheetahs have long, powerful limbs?

1. For swimming
2. For climbing trees
3. For running fast
4. For digging burrows

Q56 - Science - Animals

Which adaptation helps animals survive in cold environments?

1. Thin fur
2. Short limbs
3. Blubber
4. Scaly skin

Q57 - Science - Animals

Which feature helps a fish survive underwater?

1. Thick fur
2. Gills
3. Sharp teeth
4. Claws

Q58 - Science - Animals

Why do polar bears have white fur?

1. To reflect heat

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2. To scare predators
3. For camouflage in snow
4. To store water

Q59 - Science - Animals

Why do reptiles have scaly skin?

1. To keep them warm
2. To protect them from drying out
3. To help them run faster
4. To store food

Q60 - Science - Animals

Which animal has the ability to change its skin color for camouflage?

1. Zebra
2. Cheetah
3. Chameleon
4. Elephant

Q61 - Science - Force and Motion

If you apply the same force to two objects of different masses, which moves more?

1. The object with more mass
2. The object with less mass
3. Both will accelerate equally
4. Neither will accelerate

Q62 - Science - Force and Motion

How does increasing mass affect acceleration with the same force?

1. Decreases acceleration
2. Increases acceleration
3. No effect on acceleration
4. Reverses acceleration

Q63 - Science - Force and Motion

Which of the following is an example of a balanced force?

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1. A ball falling from a height
2. A car accelerating
3. A book resting on a table
4. A person pushing a box

Q64 - Science - Force and Motion

Which force is responsible for keeping planets in orbit around the sun?

1. Gravity
2. Friction
3. Magnetism
4. Air resistance

Q65 - Science - Force and Motion

What is the term for a force that opposes motion between two surfaces in contact?

1. Friction
2. Gravity
3. Inertia
4. Momentum

Q66 - Science - Force and Motion

What happens to an object when unbalanced forces act upon it?

1. It remains stationary.
2. It changes its motion.
3. It moves in a circle.
4. It decreases in mass.

Q67 - Science - Force and Motion

What do we call the tendency of an object to resist changes in its motion?

1. Inertia
2. Acceleration
3. Force
4. Velocity

Q68 - Science - Force and Motion

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If two people push a box in the same direction, what happens to the net force?

1. It increases.
2. It decreases.
3. It remains the same.
4. It becomes zero.

Q69 - Science - Force and Motion

According to Newton's First Law, an object at rest stays at rest unless acted upon by?

1. Its own mass
2. A balanced force
3. An unbalanced force
4. Its shape

Q70 - Science - Force and Motion

Which of the following reduces friction?

1. Lubrication
2. Adding weight
3. Increasing surface area
4. Using rougher material

Q71 - Science - Force and Motion

What happens to an object's speed when no force is acting on it?

1. It stays the same
2. It slows down
3. It speeds up
4. It stops

Q72 - Science - Force and Motion

What is the unit of force in the International System of Units (SI)?

1. Watt
2. Joule
3. Newton
4. Volt

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Q73 - Science - Force and Motion

Why do objects fall to the ground when dropped?

1. Because of gravity
2. Because of magnetism
3. Because of air resistance
4. Because of friction

Q74 - Science - Force and Motion

Which surface will create the most friction?

1. Glass
2. Smooth tile
3. Rough concrete
4. Ice

Q75 - Science - Traits and Heredity

Which of the following is an inherited trait?

1. Eye color
2. Language spoken
3. Favorite music
4. Knowledge of math

Q76 - Science - Traits and Heredity

Which trait is most likely inherited?

1. Language spoken
2. Favorite sport
3. Natural hair color
4. Handwriting style

Q77 - Science - Traits and Heredity

Which of these is an example of an inherited trait?

1. Handwriting style
2. Favorite book
3. Musical preference

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4. Blood type

Q78 - Science - Traits and Heredity

How are acquired traits different from inherited traits?

1. Both are learned
2. Acquired traits are genetic; inherited traits are learned
3. Both are genetic
4. Acquired traits are learned; inherited traits are genetic

Q79 - Science - Traits and Heredity

Which of the following is NOT an inherited trait?

1. Favorite food
2. Hair color
3. Dimples
4. Natural height

Q80 - Science - Traits and Heredity

What is the purpose of a pedigree chart?

1. To track inheritance of traits in a family
2. To measure physical fitness
3. To record daily activities
4. To plan meals

Q81 - Science - Traits and Heredity

How can you identify an acquired trait?

1. It is learned or developed after birth
2. It is present at birth
3. It is passed through genes
4. It is found in DNA

Q82 - Science - Traits and Heredity

Which of these is an acquired trait?

1. Blood type

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2. Natural eye color
3. Riding a bicycle
4. Freckles

Q83 - Science - Traits and Heredity

How are inherited traits passed from parents to offspring?

1. Through genes
2. By learning
3. Through environment
4. By choice

Q84 - Science - Traits and Heredity

What is DNA?

1. A type of rock
2. A type of food
3. The genetic material in cells
4. A part of the atmosphere

Q85 - Science - Traits and Heredity

What determines the traits an offspring inherits?

1. Genes from parents
2. Diet
3. Schooling
4. Exercise

Q86 - Science - Traits and Heredity

Which of these is NOT inherited?

1. Ability to read
2. Eye color
3. Skin tone
4. Hair texture

Q87 - Science - Traits and Heredity

What information is typically shown in a pedigree chart?

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1. Nutritional information
2. Geological timelines
3. Historical events
4. Family relationships and trait inheritance

Q88 - Science - Traits and Heredity

Which of the following is an example of an inherited behavior?

1. A dog barking
2. Learning to swim
3. Speaking a language
4. Playing an instrument

Q89 - Science - Traits and Heredity

What does a pedigree chart help you understand?

1. Family relationships and inheritance patterns
2. Geological formations
3. Weather patterns
4. Food chains in ecosystems

Q90 - Science - Scientific Names

What is the scientific name for the domestic dog?

1. Canis lupus
2. Felis catus
3. Canis lupus familiaris
4. Panthera leo

Q91 - Science - Scientific Names

Which classification level is more specific than 'Class' but broader than 'Family'?

1. Order
2. Genus
3. Species
4. Phylum

Q92 - Science - Scientific Names

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What is the primary purpose of scientific names in biology?

1. To describe appearance of organisms
2. To provide a unique ID system
3. To list all species in a region
4. To classify plants only

Q93 - Science - Scientific Names

Which of the following is the correct scientific name for humans?

1. Homo sapiens
2. Homo sapien
3. Homo Sapien
4. Homo Sapiens

Q94 - Science - Scientific Names

In the scientific name *Felis catus*, what does 'Felis' represent?

1. Species
2. Genus
3. Family
4. Order

Q95 - Science - Scientific Names

Which kingdom do mushrooms belong to?

1. Plantae
2. Fungi
3. Animalia
4. Protista

Q96 - Science - Scientific Names

What is the scientific name for the domestic cat?

1. *Canis lupus*
2. *Felis catus*
3. *Panthera leo*
4. *Felis domesticus*

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Q97 - Science - Scientific Names

Which of the following is NOT a characteristic used to classify animals into different phyla?

1. Body symmetry
2. Presence of a backbone
3. Color of the organism
4. Type of body covering

Q98 - Science - Scientific Names

The scientific name for the lion is Panthera leo. What does 'leo' signify?

1. Genus
2. Species
3. Family
4. Order

Q99 - Science - Scientific Names

What is the largest classification group in taxonomy?

1. Kingdom
2. Order
3. Class
4. Family

Q100 - Science - Scientific Names

What does the term "binomial nomenclature" refer to?

1. A two-part naming system
2. A classification method
3. A single-word name system
4. A way to group animals

Q101 - Science - Scientific Names

Which scientific name format is correct?

1. homo sapiens
2. Homo sapiens
3. Homo Sapiens

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4. homo Sapiens

Q102 - Science - Scientific Names

What is the scientific name for the horse?

1. Equus caballus
2. Canis familiaris
3. Panthera tigris
4. Felis catus

Q103 - Science - Scientific Names

Which category is more specific than 'Genus' but broader than 'Population'?

1. Kingdom
2. Phylum
3. Species
4. Family

Q104 - Science - Scientific Names

Why are Latin names used in scientific classification?

1. Latin is an easy language
2. Latin is a universal, unchanging language
3. Latin is used by all scientists
4. Latin is short and simple

Q105 - Science - Magnets

What materials are typically attracted to magnets?

1. Wood
2. Plastic
3. Iron
4. Glass

Q106 - Science - Magnets

Which pole of a magnet is attracted to the south pole of another magnet?

1. North

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2. South
3. Both
4. Neither

Q107 - Science - Magnets

What is the force called that pulls magnetic materials toward a magnet?

1. Gravity
2. Magnetism
3. Friction
4. Tension

Q108 - Science - Magnets

What happens when you cut a magnet in half?

1. Each piece becomes a new magnet with north and south poles
2. One piece will have only a north pole, and the other only a south pole
3. The magnet loses its magnetism completely
4. The two pieces will repel each other

Q109 - Science - Magnets

How can you make an electromagnet stronger?

1. Use a wooden core
2. Decrease the battery voltage
3. Increase the number of coils
4. Remove the wire covering

Q110 - Science - Magnets

Which of the following is a natural magnet?

1. Lodestone
2. Steel
3. Copper
4. Aluminum

Q111 - Science - Magnets

What happens when a magnet is placed near a coil of wire with electric current?

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1. The wire becomes non-conductive
2. The magnet loses its magnetism
3. It creates another magnet
4. Nothing happens

Q112 - Science - Magnets

What is the term for materials that are not attracted to magnets?

1. Non-magnetic
2. Magnetic
3. Ferromagnetic
4. Electromagnetic

Q113 - Science - Magnets

Which part of the atom is responsible for magnetic properties?

1. Electrons
2. Protons
3. Neutrons
4. Nucleus

Q114 - Science - Magnets

Why do magnets have north and south poles?

1. Since they only attract metal objects
2. Because of the Earth's tilt
3. Due to the arrangement of electrons
4. Because all magnets have the same shape

Q115 - Science - Magnets

What is the area around a magnet where magnetic forces can be detected called?

1. Magnetic field
2. Electric field
3. Gravitational field
4. Radiation zone

Q116 - Science - Magnets

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Which of the following is a temporary magnet?

1. Bar magnet
2. Electromagnet
3. Lodestone
4. Compass

Q117 - Science - Magnets

Which device uses Earth's magnetic field to show direction?

1. Compass
2. Thermometer
3. Barometer
4. Altimeter

Q118 - Science - Magnets

What happens when two like poles of a magnet are brought close together?

1. They attract each other
2. They repel each other
3. They lose their magnetism
4. They combine into a stronger magnet

Q119 - Science - Magnets

How can you demagnetize a magnet?

1. Heating it
2. Cooling it
3. Placing it in water
4. Wrapping it in cloth

Q120 - Science - Heat and thermal energy

What happens when a substance is heated?

1. It expands.
2. It shrinks.
3. It melts.
4. It vaporizes.

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Q121 - Science - Heat and thermal energy

Which process is involved when a solid turns into a liquid?

1. It freezes.
2. It evaporates.
3. It condenses.
4. It melts.

Q122 - Science - Heat and thermal energy

What is the term for the process of liquid turning into a gas?

1. It evaporates.
2. It boils.
3. It condenses.
4. It freezes.

Q123 - Science - Heat and thermal energy

What is the primary factor affecting thermal energy?

1. Temperature.
2. Mass.
3. Volume.
4. Color.

Q124 - Science - Heat and thermal energy

What happens when ice is placed in a warm room?

1. It freezes.
2. It melts.
3. It evaporates.
4. It sublimates.

Q125 - Science - Heat and thermal energy

What is the main reason the ocean stays warm longer than land?

1. Water has a high specific heat.
2. Water is denser than air.
3. Water absorbs heat faster.

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4. Land heats up quicker.

Q126 - Science - Heat and thermal energy

What is the process by which heat travels through solids?

1. Convection.
2. Conduction.
3. Radiation.
4. Evaporation.

Q127 - Science - Heat and thermal energy

Which of the following describes radiation?

1. Heat transfer through empty space.
2. Heat transfer through liquids.
3. Heat transfer through solids.
4. Heat transfer by contact.

Q128 - Science - Heat and thermal energy

What is the best way to keep your house warm in winter?

1. Turn on a fan.
2. Open windows.
3. Use insulation.
4. Leave doors open.

Q129 - Science - Heat and thermal energy

What happens when thermal energy is transferred to an object?

1. The object's temperature increases.
2. The object becomes colder.
3. The object remains the same.
4. The object turns into a gas.

Q130 - Science - Heat and thermal energy

Which material is the best conductor of heat?

1. Wood.

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2. Metal.
3. Plastic.
4. Glass.

Q131 - Science - Heat and thermal energy

What is thermal energy?

1. The energy of heat.
2. The energy of light.
3. The energy of sound.
4. The energy of motion.

Q132 - Science - Heat and thermal energy

What type of material is most commonly used to insulate homes?

1. Fiberglass.
2. Metal.
3. Wood.
4. Glass.

Q133 - Science - Heat and thermal energy

Which of the following is a good insulator of heat?

1. Copper.
2. Wool.
3. Aluminum.
4. Iron.

Q134 - Science - Heat and thermal energy

What does the term "specific heat" refer to?

1. The heat energy of a substance.
2. The speed at which heat travels.
3. The amount of heat needed to raise the temperature of a substance.
4. The heat required to change a substance's state.

Q135 - Science - Animals

Which of the following is the correct sequence of a butterfly's life cycle?

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1. Egg, larva, pupa, adult
2. Egg, pupa, larva, adult
3. Egg, adult, larva, pupa
4. Larva, egg, pupa, adult

Q136 - Science - Animals

Which organ is responsible for filtering waste from the blood?

1. Stomach
2. Lungs
3. Kidneys
4. Liver

Q137 - Science - Animals

Which body system helps in removing solid waste?

1. Digestive system
2. Circulatory system
3. Respiratory system
4. Nervous system

Q138 - Science - Animals

Which animal goes through metamorphosis?

1. Dog
2. Frog
3. Eagle
4. Snake

Q139 - Science - Animals

Which part of the body removes carbon dioxide from the blood?

1. Lungs
2. Heart
3. Kidneys
4. Liver

Q140 - Science - Animals

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What is the main function of the heart in the human body?

1. Digest food
2. Pump blood
3. Filter waste
4. Produce hormones

Q141 - Science - Animals

Which system controls movement and coordination?

1. Nervous system
2. Respiratory system
3. Digestive system
4. Excretory system

Q142 - Science - Animals

Which animal lays eggs?

1. Chicken
2. Whale
3. Dog
4. Dolphin

Q143 - Science - Animals

Which organ is responsible for producing urine?

1. Lungs
2. Heart
3. Kidneys
4. Stomach

Q144 - Science - Animals

What is the primary function of the stomach in digestion?

1. Absorb oxygen
2. Pump blood
3. Break down food
4. Filter waste

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Q145 - Science - Animals

Which system allows us to feel pain and react to stimuli?

1. Respiratory system
2. Circulatory system
3. Nervous system
4. Digestive system

Q146 - Science - Animals

What do frogs use to breathe as tadpoles?

1. Gills
2. Lungs
3. Skin
4. Mouth

Q147 - Science - Animals

Which system helps us move by working with muscles?

1. Skeletal system
2. Digestive system
3. Respiratory system
4. Nervous system

Q148 - Science - Animals

What is the process of breaking down food into nutrients?

1. Respiration
2. Circulation
3. Digestion
4. Excretion

Q149 - Science - Animals

Which body system includes the lungs and helps with breathing?

1. Nervous system
2. Digestive system
3. Respiratory system

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4. Skeletal system

Q150 - Science - Topographic Maps

What do contour lines on a topographic map represent?

1. Elevation changes
2. Types of vegetation
3. Road networks
4. Political boundaries

Q151 - Science - Topographic Maps

On a topographic map, what does a closely spaced contour line indicate?

1. Water body
2. Flat area
3. Steep slope
4. Forest area

Q152 - Science - Topographic Maps

How are man-made features like roads typically shown on a topographic map?

1. Black lines
2. Blue lines
3. Green areas
4. Red dotted lines

Q153 - Science - General

What does a shaded relief on a topographic map help illustrate?

1. Road networks
2. Landform shadows and terrain shape
3. Forest density
4. Population distribution

Q154 - Science - Topographic Maps

What does the scale of a topographic map tell you?

1. The map's age

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2. The types of terrain
3. The relationship between distances on the map and actual distances on the ground
4. The map's author

Q155 - Science - Topographic Maps

What does a contour interval indicate on a topographic map?

1. The elevation difference between adjacent contour lines
2. The distance between two points
3. The type of vegetation
4. The depth of water bodies

Q156 - Science - Topographic Maps

On a topographic map, what does a V-shaped contour line pointing uphill typically represent?

1. A valley
2. A ridge
3. A plateau
4. A cliff

Q157 - Science - Topographic Maps

What is the purpose of a legend on a topographic map?

1. To explain the symbols and colors used on the map
2. To provide a history of the area
3. To show weather patterns
4. To list local wildlife

Q158 - Science - Topographic Maps

How can you determine which way a river flows on a topographic map?

1. By checking the color of the lines
2. By looking at the V-shape in contour lines
3. By reading the map title
4. By finding the highest point

Q159 - Science - Topographic Maps

What does a benchmark symbol on a topographic map indicate?

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1. A known elevation point
2. A river source
3. A historical site
4. A mountain peak

Q160 - Science - Topographic Maps

What is the purpose of index contour lines on a topographic map?

1. To make reading elevations easier
2. To indicate water depth
3. To show political boundaries
4. To mark land ownership

Q161 - Science - Topographic Maps

What feature is represented by a series of concentric contour lines with decreasing elevation towards the center?

1. River
2. Hill
3. Depression
4. Cliff

Q162 - Science - Topographic Maps

What does a spot elevation on a topographic map represent?

1. A precisely measured elevation point
2. A city location
3. A road intersection
4. A weather station

Q163 - Science - Topographic Maps

Why are some contour lines darker or bolder than others?

1. To mark index contours for easier reading
2. To indicate dangerous terrain
3. To show different land uses
4. To highlight tourist locations

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Q164 - Science - Topographic Maps

How is a river typically indicated on a topographic map?

1. Green area
2. Red dashed line
3. Blue line
4. Black dotted line

Q165 - Science - Atoms and Molecules

What do ball-and-stick models help scientists visualize?

1. The shape and bonding of molecules
2. The weight of molecules
3. The speed of molecules
4. The temperature of molecules

Q166 - Science - Atoms and Molecules

What is the smallest unit of an element?

1. Electron
2. Molecule
3. Compound
4. Atom

Q167 - Science - Atoms and Molecules

Which of these elements is commonly found in water?

1. Oxygen
2. Carbon
3. Hydrogen
4. Iron

Q168 - Science - Atoms and Molecules

Which of the following is an elementary substance?

1. Gold
2. Carbon dioxide
3. Oxygen

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4. Helium

Q169 - Science - Atoms and Molecules

What do chemical formulas tell us about a substance?

1. The types and numbers of atoms
2. The shape of molecules
3. The color of substances
4. How atoms move

Q170 - Science - Atoms and Molecules

Why do scientists use models for atoms and molecules?

1. To make invisible things easier to understand
2. For decoration
3. Because they look cool
4. For fun

Q171 - Science - Atoms and Molecules

What do the sticks in a ball-and-stick model represent?

1. Atoms
2. Chemical bonds
3. Electrons
4. Protons

Q172 - Science - Atoms and Molecules

Which element is represented by the symbol "O"?

1. Oxygen
2. Carbon
3. Helium
4. Nitrogen

Q173 - Science - Atoms and Molecules

What does the subscript number in a chemical formula indicate?

1. The charge of the element

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2. The mass of the element
3. The number of atoms of an element
4. The type of chemical bond

Q174 - Science - Atoms and Molecules

Why is a water molecule written as HO?

1. Because it has 2 hydrogen atoms and 1 oxygen atom
2. Because it contains hydrogen
3. Because it's a scientific convention
4. Because it is made of water

Q175 - Science - Atoms and Molecules

Which of these statements is true about molecules?

1. Molecules are the same as elements
2. Molecules cannot be broken down
3. Molecules do not contain atoms
4. Molecules are made up of atoms

Q176 - Science - Atoms and Molecules

How do atoms combine to form molecules?

1. By sharing or transferring electrons
2. By colliding randomly
3. By repelling each other
4. By breaking apart

Q177 - Science - Atoms and Molecules

Which of these is an example of a chemical formula?

1. Table salt
2. H₂O
3. Water vapor
4. Fire

Q178 - Science - Atoms and Molecules

What holds atoms together in a molecule?

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1. Chemical bonds
2. Gravity
3. Magnetism
4. Wind forces

Q179 - Science - Atoms and Molecules

Which of these molecules consists of two hydrogen atoms and one oxygen atom?

1. N
2. CO
3. HO
4. O

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Answer Key

- Q1: To observe tiny specimens
- Q2: Beaker
- Q3: Volumetric flask
- Q4: Bunsen burner
- Q5: Safety goggles
- Q6: To hold, mix, or heat small amounts of substances
- Q7: Thermometer
- Q8: Graduated Cylinder
- Q9: Bunsen Burner
- Q10: Thermometer
- Q11: Graduated Cylinder
- Q12: Bunsen Burner
- Q13: Observing tiny objects
- Q14: Holding small amounts of liquid
- Q15: Flask
- Q16: Evaporation
- Q17: Climate is long-term, weather is short-term
- Q18: Balance
- Q19: Heart
- Q20: Liquid
- Q21: Digestive system
- Q22: Hurricane
- Q23: Energy cannot be created or destroyed
- Q24: Vitamin C
- Q25: Cumulus
- Q26: Breathing
- Q27: Differences in air pressure
- Q28: Kidney
- Q29: Thermometer
- Q30: Solar
- Q31: Fungi
- Q32: Feathers
- Q33: Plantae

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- Q34: Reptiles
- Q35: Monera
- Q36: Protista
- Q37: Herbivores
- Q38: Fish
- Q39: Laying eggs
- Q40: They produce milk
- Q41: Species
- Q42: Fungi
- Q43: Vertebrates
- Q44: Jellyfish
- Q45: Protista
- Q46: Eating food
- Q47: Cone-shaped beak
- Q48: For gripping and tearing meat
- Q49: Turtle
- Q50: Zygodactyl feet
- Q51: Camouflage
- Q52: Hibernation
- Q53: To help them swim
- Q54: To jump far
- Q55: For running fast
- Q56: Blubber
- Q57: Gills
- Q58: For camouflage in snow
- Q59: To protect them from drying out
- Q60: Chameleon
- Q61: The object with less mass
- Q62: Decreases acceleration
- Q63: A person pushing a box
- Q64: Gravity
- Q65: Friction
- Q66: It changes its motion.
- Q67: Inertia
- Q68: It increases.

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- Q69: Its shape
- Q70: Lubrication
- Q71: It stays the same
- Q72: Volt
- Q73: Because of gravity
- Q74: Ice
- Q75: Eye color
- Q76: Natural hair color
- Q77: Blood type
- Q78: Acquired traits are learned; inherited traits are genetic
- Q79: Favorite food
- Q80: To track inheritance of traits in a family
- Q81: It is learned or developed after birth
- Q82: Riding a bicycle
- Q83: Through genes
- Q84: The genetic material in cells
- Q85: Genes from parents
- Q86: Ability to read
- Q87: Family relationships and trait inheritance
- Q88: A dog barking
- Q89: Family relationships and inheritance patterns
- Q90: Canis lupus familiaris
- Q91: Order
- Q92: To provide a unique ID system
- Q93: Homo sapiens
- Q94: Genus
- Q95: Fungi
- Q96: Felis catus
- Q97: Color of the organism
- Q98: Species
- Q99: Kingdom
- Q100: A two-part naming system
- Q101: Homo sapiens
- Q102: Equus caballus
- Q103: Species

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- Q104: Latin is a universal, unchanging language
- Q105: Iron
- Q106: North
- Q107: Magnetism
- Q108: Each piece becomes a new magnet with north and south poles
- Q109: Increase the number of coils
- Q110: Lodestone
- Q111: It creates another magnet
- Q112: Non-magnetic
- Q113: Electrons
- Q114: Due to the arrangement of electrons
- Q115: Magnetic field
- Q116: Electromagnet
- Q117: Compass
- Q118: They repel each other
- Q119: Heating it
- Q120: It expands.
- Q121: It evaporates.
- Q122: It condenses.
- Q123: Temperature.
- Q124: It melts.
- Q125: Water has a high specific heat.
- Q126: Conduction.
- Q127: Heat transfer through empty space.
- Q128: Use insulation.
- Q129: The object's temperature increases.
- Q130: Metal.
- Q131: The energy of heat.
- Q132: Fiberglass.
- Q133: Wool.
- Q134: The amount of heat needed to raise the temperature of a substance.
- Q135: Egg, larva, pupa, adult
- Q136: Stomach
- Q137: Digestive system
- Q138: Frog

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- Q139: Lungs
- Q140: Pump blood
- Q141: Nervous system
- Q142: Chicken
- Q143: Kidneys
- Q144: Absorb oxygen
- Q145: Nervous system
- Q146: Gills
- Q147: Skeletal system
- Q148: Digestion
- Q149: Nervous system
- Q150: Elevation changes
- Q151: Steep slope
- Q152: Black lines
- Q153: Landform shadows and terrain shape
- Q154: The relationship between distances on the map and actual distances on the ground
- Q155: The elevation difference between adjacent contour lines
- Q156: A valley
- Q157: To explain the symbols and colors used on the map
- Q158: By looking at the V-shape in contour lines
- Q159: A known elevation point
- Q160: To make reading elevations easier
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- Q162: A precisely measured elevation point
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- Q164: Blue line
- Q165: The shape and bonding of molecules
- Q166: Atom
- Q167: Oxygen
- Q168: Oxygen
- Q169: The types and numbers of atoms
- Q170: To make invisible things easier to understand
- Q171: Chemical bonds
- Q172: Oxygen
- Q173: The number of atoms of an element

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Q174: Because it has 2 hydrogen atoms and 1 oxygen atom

Q175: Molecules are made up of atoms

Q176: By sharing or transferring electrons

Q177: H₂O

Q178: Chemical bonds

Q179: HO