

2cool4school - Grade 8 Science Worksheet

Q1 - Science - Geology

Which type of rock is formed from the cooling and solidification of magma or lava?

1. Igneous rocks
2. Sedimentary rocks
3. Metamorphic rocks
4. Fossilized rocks

Q2 - Science - Geology

What process describes the transformation of sediment into sedimentary rock?

1. Metamorphism
2. Lithification
3. Crystallization
4. Erosion

Q3 - Science - Geology

Which layer of the Earth is composed primarily of solid iron and nickel?

1. Crust
2. Mantle
3. Outer core
4. Inner core

Q4 - Science - Geology

What theory explains the movement of Earth's lithospheric plates?

1. Plate Tectonics
2. Continental Drift
3. Seafloor Spreading
4. Evolution

Q5 - Science - Geology

Fossils are most commonly found in which type of rock?

1. Igneous rocks
2. Sedimentary rocks
3. Metamorphic rocks

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4. Volcanic rocks

Q6 - Science - Geology

What is the process called when rocks are broken down by wind, water, or ice?

1. Erosion
2. Weathering
3. Deposition
4. Compaction

Q7 - Science - Geology

Which type of plate boundary involves plates moving away from each other?

1. Convergent
2. Divergent
3. Transform
4. Subduction

Q8 - Science - Geology

What is the name of the supercontinent that existed approximately 300 million years ago?

1. Gondwana
2. Laurasia
3. Pangaea
4. Rodinia

Q9 - Science - Geology

What is the primary cause of earthquakes?

1. Volcanic eruptions
2. Movement of tectonic plates
3. Weathering
4. Ocean currents

Q10 - Science - Geology

What type of rock is formed by heat and pressure acting on existing rock?

1. Igneous

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2. Sedimentary
3. Metamorphic
4. Fossilized

Q11 - Science - Geology

Which natural event is most likely to create a tsunami?

1. Tornado
2. Earthquake
3. Wildfire
4. Blizzard

Q12 - Science - Geology

What do we call molten rock that reaches the Earth's surface?

1. Magma
2. Lava
3. Basalt
4. Obsidian

Q13 - Science - Geology

What is the name of the process where rocks are worn away by wind, water, or ice?

1. Weathering
2. Erosion
3. Deposition
4. Sedimentation

Q14 - Science - Geology

Which layer of the Earth is responsible for generating its magnetic field?

1. Crust
2. Mantle
3. Outer Core
4. Inner Core

Q15 - Science - Geology

What process describes the transformation of sediment into sedimentary rock?

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1. Metamorphism
2. Lithification
3. Crystallization
4. Erosion

Q16 - Science - Ecology and conservation

What is the primary source of energy for most food chains?

1. The Sun
2. Plants
3. Herbivores
4. Decomposers

Q17 - Science - Ecology and conservation

In a food web, which organism is typically at the top?

1. Primary producers
2. Primary consumers
3. Secondary consumers
4. Apex predators

Q18 - Science - Ecology and conservation

What term describes the relationship where both species benefit?

1. Parasitism
2. Mutualism
3. Commensalism
4. Predation

Q19 - Science - Ecology and conservation

Which process involves the gradual development of a community in a previously uninhabited area?

1. Primary succession
2. Secondary succession
3. Climax community
4. Ecological disturbance

Q20 - Science - Ecology and conservation

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What is a food web?

1. A linear sequence of organisms where each is eaten by the next
2. A complex network of interconnected food chains
3. A diagram showing energy flow in a single path
4. A chart of predator-prey relationships

Q21 - Science - Ecology and conservation

Which of the following is an example of mutualism?

1. A tick feeding on a deer
2. A bird eating insects off a rhino's back
3. A lion hunting a zebra
4. A barnacle attaching to a whale

Q22 - Science - Ecology and conservation

What is the role of decomposers in an ecosystem?

1. To produce energy for plants
2. To break down dead organisms and recycle nutrients
3. To consume primary producers
4. To compete with herbivores for food

Q23 - Science - Ecology and conservation

Which term describes a close, long-term interaction between two different species?

1. Symbiosis
2. Competition
3. Predation
4. Parasitism

Q24 - Science - Meteorology and climate

What is the primary focus of meteorology?

1. The study of rocks and minerals
2. The study of weather and atmospheric conditions
3. The study of ocean currents
4. The study of Earth's core

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Q25 - Science - Meteorology and climate

Which process in the water cycle involves water vapor cooling and changing into liquid form?

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

Q26 - Science - Meteorology and climate

How are climates primarily classified?

1. By the types of vegetation present
2. By average temperature and precipitation
3. By the altitude of the region
4. By the population density

Q27 - Science - Meteorology and climate

What are large bodies of air with uniform temperature and humidity called?

1. Air masses
2. Fronts
3. Cyclones
4. Jet streams

Q28 - Science - Meteorology and climate

Which gas is primarily responsible for the greenhouse effect?

1. Oxygen
2. Nitrogen
3. Carbon dioxide
4. Argon

Q29 - Science - Meteorology and climate

What instrument is commonly used to measure atmospheric pressure?

1. Thermometer
2. Barometer
3. Anemometer

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4. Hygrometer

Q30 - Science - Meteorology and climate

Which layer of the atmosphere is closest to Earth's surface?

1. Stratosphere
2. Mesosphere
3. Troposphere
4. Thermosphere

Q31 - Science - Meteorology and climate

What term describes the long-term average of weather patterns in a region?

1. Weather
2. Climate
3. Atmosphere
4. Season

Q32 - Science - Meteorology and climate

What is the main cause of wind?

1. Rotation of the Earth
2. Differences in air pressure
3. The Moon's gravitational pull
4. Ocean currents

Q33 - Science - Meteorology and climate

What type of cloud is associated with thunderstorms?

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

Q34 - Science - Meteorology and climate

What is the boundary between two air masses called?

1. A jet stream

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2. A front
3. A cyclone
4. A pressure system

Q35 - Science - Meteorology and climate

What is the Coriolis effect?

1. The warming of the Earth due to greenhouse gases
2. The rotation of storm systems due to Earth's rotation
3. The cooling of air as it rises
4. The increase of atmospheric pressure at high altitudes

Q36 - Science - Meteorology and climate

What does a hygrometer measure?

1. Wind speed
2. Temperature
3. Humidity
4. Air pressure

Q37 - Science - Meteorology and climate

What type of front brings sudden storms followed by cooler weather?

1. Warm front
2. Occluded front
3. Cold front
4. Stationary front

Q38 - Science - Meteorology and climate

Which gas is primarily responsible for the greenhouse effect?

1. Oxygen
2. Nitrogen
3. Carbon dioxide
4. Argon

Q39 - Science - Astronomy

What is the standard unit of measurement for astronomical distances?

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1. Light-year
2. Astronomical unit
3. Parsec
4. Kilometer

Q40 - Science - Astronomy

What force keeps planets in orbit around the Sun?

1. Inertia
2. Magnetism
3. Gravity
4. Solar Wind

Q41 - Science - Astronomy

Which law explains the relationship between the orbital period and the semi-major axis of an orbit?

1. Kepler's Third Law
2. Newton's First Law
3. Einstein's Theory of Relativity
4. Hubble's Law

Q42 - Science - Astronomy

What is the name of the first man-made satellite to orbit Earth?

1. Apollo 11
2. Voyager 1
3. Sputnik 1
4. Hubble Space Telescope

Q43 - Science - Astronomy

What is the primary factor that determines the characteristics of a planet's environment?

1. Distance from the Sun
2. Size of the planet
3. Presence of an atmosphere
4. Magnetic field

Q44 - Science - Astronomy

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What shape do most planetary orbits in our solar system have?

1. Circular
2. Elliptical
3. Parabolic
4. Hyperbolic

Q45 - Science - Astronomy

What is the term for the point in an orbit closest to the Sun?

1. Perihelion
2. Aphelion
3. Perigee
4. Apogee

Q46 - Science - Astronomy

What is the primary component of the Sun?

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

Q47 - Science - Astronomy

Which planet has a surface temperature hot enough to melt lead due to a runaway greenhouse effect?

1. Venus
2. Mercury
3. Mars
4. Jupiter

Q48 - Science - Astronomy

Which planet has the shortest day in the solar system?

1. Jupiter
2. Earth
3. Venus

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4. Neptune

Q49 - Science - Astronomy

Which of the following celestial objects is the densest?

1. Black Hole
2. White Dwarf
3. Neutron Star
4. Red Giant

Q50 - Science - Astronomy

Which law explains the relationship between the orbital period and the semi-major axis of an orbit?

1. Kepler's Third Law
2. Newton's First Law
3. Einstein's Theory of Relativity
4. Hubble's Law

Q51 - Science - Astronomy

How is the distance to nearby stars most commonly measured?

1. Redshift measurement
2. Parallax method
3. Brightness comparison
4. Doppler effect

Q52 - Science - Astronomy

What is the name of the largest volcano in the solar system?

1. Mount Everest
2. Mauna Loa
3. Olympus Mons
4. Vesuvius

Q53 - Science - Astronomy

Which planet has the most eccentric orbit in our solar system?

1. Venus

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2. Mercury
3. Earth
4. Mars

Q54 - Science - Physiology and Genes

Which system in the human body is responsible for transporting lymph, a fluid containing infection-fighting white blood cells?

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

Q55 - Science - Physiology and Genes

What is the primary function of the endocrine system?

1. To transport oxygen
2. To secrete hormones
3. To digest food
4. To protect against pathogens

Q56 - Science - Physiology and Genes

Which gland is often referred to as the 'master gland' of the endocrine system?

1. Thyroid gland
2. Pituitary gland
3. Adrenal gland
4. Pancreas

Q57 - Science - Physiology and Genes

What term describes the genetic makeup of an organism?

1. Phenotype
2. Genotype
3. Allele
4. Chromosome

Q58 - Science - Physiology and Genes

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Which of the following represents a homozygous dominant genotype?

1. AA
2. Aa
3. aa
4. Ab

Q59 - Science - Physiology and Genes

In a Punnett square, what does each box represent?

1. A possible genotype of offspring
2. A parent's genotype
3. A mutation
4. An environmental factor

Q60 - Science - Physiology and Genes

What is a phenotype?

1. The genetic makeup of an organism
2. The physical expression of genes
3. A type of gene mutation
4. A recessive allele

Q61 - Science - Physiology and Genes

Which of the following is an example of a recessive allele?

1. A
2. B
3. a
4. AB

Q62 - Science - Physiology and Genes

How many alleles for a single trait does an individual inherit from each parent?

1. One
2. Two
3. Three
4. Four

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Q63 - Science - Physiology and Genes

What is the role of lymph nodes in the lymphatic system?

1. To produce red blood cells
2. To filter lymph and trap pathogens
3. To transport oxygen
4. To digest lipids

Q64 - Science - Physiology and Genes

Which hormone regulates blood sugar levels?

1. Insulin
2. Thyroxine
3. Adrenaline
4. Estrogen

Q65 - Science - Physiology and Genes

What is a gene mutation?

1. A change in the DNA sequence
2. A type of protein
3. An environmental adaptation
4. A dominant allele

Q66 - Science - Physiology and Genes

Which system works closely with the lymphatic system to circulate fluids throughout the body?

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

Q67 - Science - Physiology and Genes

What does a Punnett square predict?

1. The likelihood of genetic disorders
2. Possible offspring traits
3. Environmental adaptations

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4. Blood type

Q68 - Science - Physiology and Genes

How many alleles for a single trait does an individual inherit from each parent?

1. One
2. Two
3. Three
4. Four

Q69 - Science - Chemistry 8.1

What is the smallest unit of an element that retains its chemical properties?

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

Q70 - Science - Chemistry 8.2

Which subatomic particle has a positive charge?

1. Electron
2. Proton
3. Neutron
4. Photon

Q71 - Science - Chemistry 8.3

What is the chemical symbol for sodium?

1. S
2. Na
3. So
4. N

Q72 - Science - Chemistry 8.4

Which of the following is a noble gas?

1. Oxygen

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2. Nitrogen
3. Helium
4. Hydrogen

Q73 - Science - Chemistry 8.5

What is the pH value of a neutral solution?

1. 0
2. 7
3. 14
4. 1

Q74 - Science - Chemistry 8.6

Which type of bond involves the sharing of electron pairs between atoms?

1. Ionic
2. Covalent
3. Metallic
4. Hydrogen

Q75 - Science - Chemistry 8.7

What is the main gas found in the Earth's atmosphere?

1. Oxygen
2. Nitrogen
3. Carbon Dioxide
4. Argon

Q76 - Science - Chemistry 8.8

Which element is essential for the production of thyroid hormones?

1. Iron
2. Calcium
3. Iodine
4. Magnesium

Q77 - Science - Chemistry 8.9

What is the chemical formula for water?

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1. H₂O
2. CO₂
3. O₂
4. H₂SO₄

Q78 - Science - Chemistry 8.10

Which process describes a solid changing directly into a gas?

1. Melting
2. Freezing
3. Sublimation
4. Condensation

Q79 - Science - Chemistry 8.11

What is the most abundant element in the Earth's crust?

1. Oxygen
2. Silicon
3. Aluminum
4. Iron

Q80 - Science - Chemistry 8.12

Which law states that mass is neither created nor destroyed in a chemical reaction?

1. Law of Definite Proportions
2. Law of Multiple Proportions
3. Law of Conservation of Mass
4. Law of Conservation of Energy

Q81 - Science - Chemistry 8.13

What is the common name for the compound with the chemical formula NaCl?

1. Baking Soda
2. Table Salt
3. Vinegar
4. Sugar

Q82 - Science - Chemistry 8.14

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Which type of reaction involves the combination of two or more substances to form a new compound?

1. Decomposition
2. Synthesis
3. Combustion
4. Neutralization

Q83 - Science - Chemistry 8.15

What is the process in which a liquid turns into a gas at a temperature below its boiling point?

1. Condensation
2. Evaporation
3. Boiling
4. Melting

Q84 - Science - Plant Biology

Who is known as the father of genetics?

1. Charles Darwin
2. Gregor Mendel
3. Robert Hooke
4. Isaac Newton

Q85 - Science - Plant Biology

Which part of the plant is responsible for photosynthesis?

1. Roots
2. Stem
3. Leaves
4. Flowers

Q86 - Science - Plant Biology

What is the primary pigment involved in photosynthesis?

1. Carotene
2. Xanthophyll
3. Chlorophyll

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4. Anthocyanin

Q87 - Science - Plant Biology

What gas is taken in by plants during photosynthesis?

1. Oxygen
2. Carbon Dioxide
3. Nitrogen
4. Hydrogen

Q88 - Science - Plant Biology

What is the main product of photosynthesis?

1. Carbon Dioxide
2. Water
3. Glucose
4. Nitrogen

Q89 - Science - Plant Biology

Which of the following is NOT required for photosynthesis?

1. Sunlight
2. Oxygen
3. Carbon Dioxide
4. Water

Q90 - Science - Plant Biology

Where in the cell does photosynthesis take place?

1. Nucleus
2. Chloroplast
3. Mitochondria
4. Cytoplasm

Q91 - Science - Plant Biology

What is the purpose of stomata in leaves?

1. Absorbing nutrients

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2. Exchanging gases
3. Producing seeds
4. Transporting water

Q92 - Science - Plant Biology

What type of reproduction involves a single parent and identical offspring?

1. Sexual reproduction
2. Asexual reproduction
3. Cross-pollination
4. Fertilization

Q93 - Science - Plant Biology

Which of the following best describes Mendel's laws of inheritance?

1. Genes are blended equally from both parents
2. Traits are inherited randomly
3. Dominant traits always skip a generation
4. Only recessive traits are passed on

Q94 - Science - Plant Biology

What is the process by which plants lose water vapor through their leaves?

1. Respiration
2. Photosynthesis
3. Transpiration
4. Fermentation

Q95 - Science - Plant Biology

Which of the following describes a heterozygous genotype?

1. AA
2. Aa
3. aa
4. BB

Q96 - Science - Plant Biology

Which molecule provides energy for cellular processes in plants?

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1. ATP
2. Glucose
3. Water
4. Chlorophyll

Q97 - Science - Plant Biology

Which type of plant reproduction requires pollination?

1. Asexual reproduction
2. Budding
3. Sexual reproduction
4. Binary fission

Q98 - Science - Plant Biology

What do plants use to absorb water and nutrients from the soil?

1. Leaves
2. Roots
3. Stems
4. Flowers

Q99 - Science - Ecology and conservation

What is the primary source of energy for most food chains?

1. The Sun
2. Plants
3. Herbivores
4. Decomposers

Q100 - Science - Ecology and conservation

In a food web, which organism is typically at the top?

1. Primary producers
2. Primary consumers
3. Secondary consumers
4. Apex predators

Q101 - Science - Ecology and conservation

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What term describes the relationship where both species benefit?

1. Parasitism
2. Mutualism
3. Commensalism
4. Predation

Q102 - Science - Ecology and conservation

Which process involves the gradual development of a community in a previously uninhabited area?

1. Primary succession
2. Secondary succession
3. Climax community
4. Ecological disturbance

Q103 - Science - Ecology and conservation

What is a food web?

1. A linear sequence of organisms where each is eaten by the next
2. A complex network of interconnected food chains
3. A diagram showing energy flow in a single path
4. A chart of predator-prey relationships

Q104 - Science - Ecology and conservation

Which of the following is an example of mutualism?

1. A tick feeding on a deer
2. A bird eating insects off a rhino's back
3. A lion hunting a zebra
4. A barnacle attaching to a whale

Q105 - Science - Ecology and conservation

What is the role of decomposers in an ecosystem?

1. To produce energy for plants
2. To break down dead organisms and recycle nutrients
3. To consume primary producers
4. To compete with herbivores for food

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Q106 - Science - Ecology and conservation

Which term describes a close, long-term interaction between two different species?

1. Symbiosis
2. Competition
3. Predation
4. Parasitism

Q107 - Science - Ecology and conservation

What is biodiversity?

1. The variety of life in an ecosystem
2. The number of plants in an area
3. The presence of only one species
4. The number of carnivores in a habitat

Q108 - Science - Ecology and conservation

Which of the following is an abiotic factor?

1. Sunlight
2. Trees
3. Fish
4. Bacteria

Q109 - Science - Ecology and conservation

How does deforestation impact an ecosystem?

1. Increases biodiversity
2. Improves oxygen levels
3. Reduces habitat availability
4. Increases food supply for herbivores

Q110 - Science - Ecology and conservation

What is an example of a nonrenewable resource?

1. Coal
2. Sunlight
3. Wind energy

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4. Water

Q111 - Science - Ecology and conservation

Why are invasive species a problem for ecosystems?

1. They always improve biodiversity
2. They can outcompete native species
3. They help balance predator-prey relationships
4. They have no effect on ecosystems

Q112 - Science - Ecology and conservation

What do primary consumers eat?

1. Producers
2. Carnivores
3. Other consumers
4. Decomposers

Q113 - Science - Ecology and conservation

How does pollution affect aquatic ecosystems?

1. Increases oxygen levels
2. Causes habitat destruction
3. Has no impact
4. Helps fish grow

Q114 - Science - Meteorology and Climate

What is the primary source of energy in most food chains?

1. Herbivores
2. Carnivores
3. The Sun
4. Decomposers

Q115 - Science - Meteorology and Climate

In a food web, which organisms are typically at the top?

1. Producers

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2. Primary consumers
3. Secondary consumers
4. Apex predators

Q116 - Science - Meteorology and Climate

Which of the following best describes symbiosis?

1. A relationship where one organism hunts another
2. A close and long-term interaction between two different species
3. Competition between species for resources
4. An organism breaking down dead material

Q117 - Science - Meteorology and Climate

What is primary succession?

1. The regrowth of a forest after a fire
2. The development of plant and animal life in an area without soil
3. Seasonal migration of animals
4. The process of one species replacing another in an ecosystem

Q118 - Science - Meteorology and Climate

Which of the following is an example of a wetland?

1. Desert
2. Swamp
3. Mountain peak
4. Grassland

Q119 - Science - Meteorology and Climate

In a food chain, what role do decomposers play?

1. They produce energy from sunlight.
2. They consume primary consumers.
3. They break down dead organisms, returning nutrients to the soil.
4. They compete with producers for resources.

Q120 - Science - Meteorology and Climate

What is a food web?

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1. A linear sequence of organisms where each is eaten by the next
2. A complex network of interconnected food chains
3. A diagram showing energy flow from the sun to producers
4. A chart of the population sizes of different species

Q121 - Science - Meteorology and Climate

Which term describes a relationship where both species benefit?

1. Parasitism
2. Commensalism
3. Mutualism
4. Predation

Q122 - Science - Meteorology and Climate

What is the main goal of conservation efforts in marine areas?

1. To increase tourism
2. To protect marine biodiversity and habitats
3. To promote fishing industries
4. To desalinate seawater

Q123 - Science - Meteorology and Climate

What process describes the gradual establishment of a community in an area that has not previously supported life?

1. Secondary succession
2. Primary succession
3. Migration
4. Hibernation

Q124 - Science - Meteorology and Climate

Which term describes an organism that produces its own food?

1. Producer
2. Consumer
3. Decomposer
4. Scavenger

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Q125 - Science - Meteorology and Climate

What is the role of decomposers in nutrient cycles?

1. To consume other decomposers
2. To recycle nutrients into the soil
3. To absorb nutrients from living plants
4. To store nutrients in their bodies

Q126 - Science - Meteorology and Climate

Which of the following is an abiotic factor in an ecosystem?

1. Sunlight
2. Decomposers
3. Herbivores
4. Producers

Q127 - Science - Meteorology and Climate

What is the primary function of photosynthesis in plants?

1. To create oxygen
2. To produce energy in the form of glucose
3. To break down carbon dioxide
4. To store nutrients

Q128 - Science - Meteorology and Climate

What is biodiversity?

1. The total number of individuals in an ecosystem
2. The variety of life in an ecosystem
3. The number of abiotic factors in an ecosystem
4. The amount of carbon dioxide in the air

Q129 - Science - Biochemistry

Which macromolecule is the primary source of energy for most living organisms?

1. Proteins
2. Carbohydrates
3. Lipids

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4. Nucleic Acids

Q130 - Science - Biochemistry

Which biomolecule carries genetic information in cells?

1. Proteins
2. Lipids
3. Nucleic Acids
4. Carbohydrates

Q131 - Science - Biochemistry

What is the basic building block of proteins?

1. Nucleotides
2. Amino acids
3. Fatty acids
4. Monosaccharides

Q132 - Science - Biochemistry

Which type of macromolecule is primarily responsible for long-term energy storage?

1. Proteins
2. Carbohydrates
3. Lipids
4. Nucleic Acids

Q133 - Science - Biochemistry

What is the primary function of enzymes in biochemical reactions?

1. Provide energy
2. Speed up reactions
3. Store genetic information
4. Transport molecules

Q134 - Science - Biochemistry

Which of the following is NOT a macromolecule?

1. Protein

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2. Lipid
3. Water
4. Carbohydrate

Q135 - Science - Biochemistry

Cellular respiration primarily occurs in which organelle?

1. Nucleus
2. Mitochondria
3. Ribosome
4. Chloroplast

Q136 - Science - Biochemistry

What is the main purpose of cellular respiration?

1. To produce oxygen
2. To break down food for energy
3. To create proteins
4. To store fat

Q137 - Science - Biochemistry

Which gas is used in cellular respiration?

1. Oxygen
2. Carbon dioxide
3. Nitrogen
4. Hydrogen

Q138 - Science - Biochemistry

Which process is the opposite of cellular respiration?

1. Fermentation
2. Photosynthesis
3. Glycolysis
4. Digestion

Q139 - Science - Biochemistry

What is the main product of cellular respiration?

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1. Oxygen
2. Carbon dioxide
3. ATP
4. Glucose

Q140 - Science - Biochemistry

Which of the following molecules is NOT involved in cellular respiration?

1. ATP
2. Glucose
3. DNA
4. Oxygen

Q141 - Science - Biochemistry

Which macromolecule is important for building cell membranes?

1. Carbohydrates
2. Lipids
3. Proteins
4. Nucleic acids

Q142 - Science - Biochemistry

What is the first stage of cellular respiration?

1. Krebs Cycle
2. Electron Transport Chain
3. Glycolysis
4. Fermentation

Q143 - Science - Biochemistry

Which of the following is an example of a polysaccharide?

1. Glucose
2. Fructose
3. Starch
4. Amino Acid

Q144 - Science - Physics: Solutions

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What is a solution in physics?

1. A type of chemical reaction
2. A homogeneous mixture of two or more substances
3. A process of separating mixtures
4. A form of energy transformation

Q145 - Science - Physics: Solutions

Which component of a solution is present in the largest amount?

1. Solute
2. Solvent
3. Emulsifier
4. Catalyst

Q146 - Science - Physics: Solutions

What happens to the boiling point of a solvent when a solute is dissolved in it?

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

Q147 - Science - Physics: Solutions

Which term describes a solution that cannot dissolve any more solute at a given temperature?

1. Unsaturated
2. Saturated
3. Supersaturated
4. Dilute

Q148 - Science - Physics: Solutions

How does increasing the temperature generally affect the solubility of a solid solute in a liquid solvent?

1. Increases solubility
2. Decreases solubility
3. No effect

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4. Solubility becomes unpredictable

Q149 - Science - Physics: Solutions

What is the term for a solution that contains more dissolved solute than it would normally hold at a given temperature?

1. Unsaturated
2. Saturated
3. Supersaturated
4. Concentrated

Q150 - Science - Physics: Solutions

In a saltwater solution, what is the salt considered?

1. Solute
2. Solvent
3. Solution
4. Emulsifier

Q151 - Science - Physics: Solutions

Which factor does NOT affect the rate at which a solute dissolves in a solvent?

1. Temperature
2. Stirring
3. Particle size
4. Color of solute

Q152 - Science - Physics: Solutions

What is the process of separating a solid from a liquid in a heterogeneous mixture called?

1. Filtration
2. Evaporation
3. Condensation
4. Distillation

Q153 - Science - Physics: Solutions

Which method is commonly used to separate a dissolved solid from a solution?

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1. Filtration
2. Evaporation
3. Decanting
4. Sieving

Q154 - Science - Physics: Solutions

Which of the following is an example of a gaseous solution?

1. Saltwater
2. Carbonated soda
3. Oil and water
4. Sand and gravel

Q155 - Science - Physics: Solutions

What factor affects the solubility of gases in liquids?

1. Temperature
2. Pressure
3. Both temperature and pressure
4. Neither temperature nor pressure

Q156 - Science - Physics: Solutions

How does stirring affect the rate at which a solute dissolves in a solvent?

1. It slows it down
2. It speeds it up
3. It has no effect
4. It makes the solution evaporate

Q157 - Science - Physics: Solutions

What is a solution called when it contains a very small amount of solute compared to the solvent?

1. Saturated
2. Dilute
3. Supersaturated
4. Concentrated

Q158 - Science - Physics: Solutions

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Which separation method is commonly used to purify water by boiling and collecting steam?

1. Filtration
2. Decantation
3. Distillation
4. Sieving

Q159 - Science - Physics: Velocity, Acceleration, and Forces

What is the formula to calculate velocity?

1. Velocity = Distance Time
2. Velocity = Distance Time
3. Velocity = Time Distance
4. Velocity = Distance + Time

Q160 - Science - Physics: Velocity, Acceleration, and Forces

If a car travels 150 kilometers in 3 hours, what is its average velocity?

1. 50 km/h
2. 150 km/h
3. 450 km/h
4. 30 km/h

Q161 - Science - Physics: Velocity, Acceleration, and Forces

Which of the following scenarios describes acceleration?

1. A car moving at a constant speed on a straight road.
2. A cyclist slowing down to a stop.
3. A train parked at the station.
4. A runner maintaining a steady pace around a circular track.

Q162 - Science - Physics: Velocity, Acceleration, and Forces

According to Newton's Second Law of Motion, what happens when a net force acts on an object?

1. The object remains at rest.
2. The object moves at a constant velocity.
3. The object accelerates in the direction of the force.
4. The object decelerates opposite to the force.

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Q163 - Science - Physics: Velocity, Acceleration, and Forces

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

1. Joule
2. Newton
3. Kilogram
4. Meter per second

Q164 - Science - Physics: Velocity, Acceleration, and Forces

If an object has a mass of 10 kg and is accelerating at 2 m/s, what is the net force acting on it?

1. 5 N
2. 10 N
3. 20 N
4. 40 N

Q165 - Science - Physics: Velocity, Acceleration, and Forces

Which of the following is an example of balanced forces?

1. A book resting on a table.
2. A car accelerating on a highway.
3. A skydiver falling at terminal velocity.
4. A ball rolling down a hill.

Q166 - Science - Physics: Velocity, Acceleration, and Forces

What does Newton's Third Law of Motion state?

1. An object at rest stays at rest.
2. Force equals mass times acceleration.
3. For every action, there is an equal and opposite reaction.
4. Energy cannot be created or destroyed.

Q167 - Science - Physics: Velocity, Acceleration, and Forces

If two forces of 5 N and 10 N act in opposite directions on an object, what is the net force?

1. 15 N in the direction of the larger force
2. 5 N in the direction of the larger force
3. 5 N in the direction of the smaller force

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4. 15 N in the direction of the smaller force

Q168 - Science - Physics: Velocity, Acceleration, and Forces

What is the acceleration of an object moving with constant velocity?

1. Zero
2. Equal to its velocity
3. Equal to the net force acting on it
4. Equal to its mass

Q169 - Science - Physics: Velocity, Acceleration, and Forces

What happens to an object's velocity when it undergoes uniform acceleration?

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

Q170 - Science - Physics: Velocity, Acceleration, and Forces

Which of the following best describes inertia?

1. The resistance to a change in motion.
2. The force that accelerates an object.
3. The rate of change of velocity.
4. The energy stored in an object.

Q171 - Science - Physics: Velocity, Acceleration, and Forces

A ball is thrown upwards. What force is acting on it while it is in the air?

1. Only gravity.
2. Only air resistance.
3. Both gravity and air resistance.
4. No forces act on it.

Q172 - Science - Physics: Velocity, Acceleration, and Forces

What happens to the gravitational force between two objects when the distance between them is doubled?

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1. It doubles.
2. It becomes half.
3. It becomes one-fourth.
4. It remains the same.

Q173 - Science - Physics: Velocity, Acceleration, and Forces

Which of the following is NOT an example of Newtons First Law?

1. A book staying on a table unless pushed.
2. A moving car stopping due to friction.
3. A spacecraft moving in space without thrust.
4. A car accelerating when the gas pedal is pressed.

Q174 - Science - Science -The Scientific Process 8.1

What is the first step in the scientific method?

1. Forming a hypothesis
2. Conducting an experiment
3. Making observations
4. Asking a question

Q175 - Science - Science -The Scientific Process 8.2

Which term describes a testable prediction in an experiment?

1. Theory
2. Hypothesis
3. Variable
4. Conclusion

Q176 - Science - Science -The Scientific Process 8.3

What is the purpose of a control group in an experiment?

1. To test multiple variables
2. To serve as a standard for comparison
3. To prove the hypothesis
4. To collect data

Q177 - Science - Science -The Scientific Process 8.4

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Which variable is deliberately changed in an experiment?

1. Dependent variable
2. Independent variable
3. Controlled variable
4. Extraneous variable

Q178 - Science - Science -The Scientific Process 8.5

What is the term for data collected through observations and measurements?

1. Hypothesis
2. Theory
3. Evidence
4. Inference

Q179 - Science - Science -The Scientific Process 8.6

Which step involves analyzing data to determine if it supports the hypothesis?

1. Experimentation
2. Observation
3. Conclusion
4. Hypothesis

Q180 - Science - Science -The Scientific Process 8.7

What is a scientific theory?

1. A proven fact
2. A testable prediction
3. A well-substantiated explanation
4. An untested idea

Q181 - Science - Science -The Scientific Process 8.8

Which of the following is an example of qualitative data?

1. 5 meters
2. 20 kilograms
3. Blue color
4. 100 degrees Celsius

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Q182 - Science - Science -The Scientific Process 8.9

Why is it important to repeat experiments?

1. To change the hypothesis
2. To increase sample size
3. To ensure reliability and accuracy
4. To find new variables

Q183 - Science - Science -The Scientific Process 8.10

What does it mean if an experiment's results are reproducible?

1. They can be replicated by others
2. They support the hypothesis
3. They are statistically significant
4. They are published in journals

Q184 - Science - Science -The Scientific Process 8.11

Which graph is best for showing trends over time?

1. Bar graph
2. Line graph
3. Pie chart
4. Scatter plot

Q185 - Science - Science -The Scientific Process 8.12

What is peer review in the scientific community?

1. Reviewing one's own work
2. Evaluating others' research before publication
3. Publishing findings without review
4. Discussing results with friends

Q186 - Science - Science -The Scientific Process 8.13

Which of the following is NOT a step in the scientific method?

1. Making observations
2. Drawing a conclusion
3. Forming a hypothesis

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4. Making predictions

Q187 - Science - Science -The Scientific Process 8.14

Why is it important to have a large sample size in experiments?

1. To prove the hypothesis
2. To reduce bias
3. To improve accuracy
4. To make results reliable

Q188 - Science - Science -The Scientific Process 8.15

What is the purpose of a hypothesis in an experiment?

1. To prove a theory
2. To serve as a testable prediction
3. To summarize results
4. To describe observations

Q189 - Science - Engineering Practices 8.1

Which factor is crucial when selecting materials for a project?

1. Aesthetics
2. Availability
3. Strength and durability
4. Cost alone

Q190 - Science - Engineering Practices 8.2

What is the primary goal of engineering design?

1. To create aesthetic designs
2. To solve practical problems
3. To conduct scientific research
4. To analyze data

Q191 - Science - Engineering Practices 8.3

Why is documentation important in engineering projects?

1. To make projects look professional

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2. To meet government requirements
3. To keep track of design changes
4. To limit innovation

Q192 - Science - Engineering Practices 8.4

Which step comes first in the engineering design process?

1. Testing a prototype
2. Defining the problem
3. Building a model
4. Communicating results

Q193 - Science - Engineering Practices 8.5

What is a prototype in engineering?

1. A final product
2. A detailed report
3. An initial working model
4. A theoretical concept

Q194 - Science - Engineering Practices 8.6

Why is it important to test and evaluate a prototype?

1. To finalize the design
2. To identify and fix issues
3. To market the product
4. To patent the design

Q195 - Science - Engineering Practices 8.7

What is the purpose of a risk assessment in engineering?

1. To slow down development
2. To reduce costs
3. To prevent potential hazards
4. To comply with patent laws

Q196 - Science - Engineering Practices 8.8

Which term describes the limitations and requirements in a design process?

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1. Criteria and constraints
2. Variables
3. Hypotheses
4. Theories

Q197 - Science - Engineering Practices 8.9

What does it mean to optimize a design?

1. To make it as expensive as possible
2. To make it as effective and efficient as possible
3. To make it as complex as possible
4. To make it as simple as possible

Q198 - Science - Engineering Practices 8.10

In engineering, what is brainstorming used for?

1. To evaluate solutions
2. To generate ideas
3. To test prototypes
4. To define problems

Q199 - Science - Engineering Practices 8.11

How does collaboration benefit the engineering design process?

1. It slows down decision-making
2. It introduces errors
3. It brings diverse perspectives
4. It reduces creativity

Q200 - Science - Engineering Practices 8.12

Why is it important to consider constraints in engineering design?

1. To ensure the design is perfect
2. To understand the limitations and requirements
3. To increase the cost
4. To simplify the process

Q201 - Science - Engineering Practices 8.13

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What role does feedback play in the engineering design process?

1. It hinders progress
2. It provides information for improvement
3. It finalizes the design
4. It is unnecessary

Q202 - Science - Engineering Practices 8.14

Which of the following is an example of a constraint in engineering?

1. Unlimited budget
2. Specific material requirements
3. No deadline
4. Infinite resources

Q203 - Science - Engineering Practices 8.15

What is the purpose of creating multiple design solutions?

1. To confuse the client
2. To explore different approaches
3. To increase costs
4. To delay the project

Q204 - Science - Science 8

What is the primary function of mitochondria in eukaryotic cells?

1. Protein synthesis
2. Energy production
3. DNA replication
4. Waste removal

Q205 - Science - Science 8

Which law explains the relationship between the pressure and volume of a gas at constant temperature?

1. Boyle's Law
2. Charles's Law
3. Newton's First Law

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4. Ohm's Law

Q206 - Science - Science 8

In genetics, what term describes the physical appearance resulting from an organism's genetic makeup?

1. Genotype
2. Phenotype
3. Allele
4. Chromosome

Q207 - Science - Science 8

Which of the following elements is a noble gas?

1. Oxygen
2. Nitrogen
3. Argon
4. Hydrogen

Q208 - Science - Science 8

What is the chemical formula for table salt?

1. NaCl
2. KCl
3. NaOH
4. HCl

Q209 - Science - Science 8

Which planet in our solar system has the largest number of moons?

1. Earth
2. Mars
3. Jupiter
4. Saturn

Q210 - Science - Science 8

What is the powerhouse of the cell?

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1. Nucleus
2. Mitochondria
3. Ribosome
4. Endoplasmic reticulum

Q211 - Science - Science 8

Which process involves the movement of water across a selectively permeable membrane?

1. Diffusion
2. Osmosis
3. Active transport
4. Endocytosis

Q212 - Science - Science 8

What is the acceleration due to gravity on Earth's surface?

1. 9.8 m/s
2. 8.9 m/s
3. 10.2 m/s
4. 9.2 m/s

Q213 - Science - Science 8

Which organ system is responsible for transporting nutrients and oxygen to cells?

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

Q214 - Science - Science 8

What is the primary gas found in Earth's atmosphere?

1. Oxygen
2. Nitrogen
3. Carbon dioxide
4. Hydrogen

Q215 - Science - Science 8

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Which type of rock is formed from the cooling and solidification of magma or lava?

1. Sedimentary
2. Metamorphic
3. Igneous
4. Fossiliferous

Q216 - Science - Science 8

What is the process by which plants convert sunlight into energy?

1. Photosynthesis
2. Respiration
3. Condensation
4. Evaporation

Q217 - Science - Science 8

Which subatomic particle carries a negative charge?

1. Proton
2. Neutron
3. Electron
4. Nucleus

Q218 - Science - Science 8

Which simple machine consists of a sloping surface used to raise objects?

1. Lever
2. Inclined plane
3. Pulley
4. Wedge

Q219 - Science - Units and measurement

What is the standard unit of length in the metric system?

1. Meter
2. Kilometer
3. Centimeter
4. Millimeter

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Q220 - Science - Units and measurement

What is the boiling point of water in Fahrenheit?

1. 32 degrees
2. 100 degrees
3. 212 degrees
4. 0 degrees

Q221 - Science - Units and measurement

Which unit is commonly used to measure mass in the metric system?

1. Meter
2. Liter
3. Gram
4. Celsius

Q222 - Science - Units and measurement

Which unit is commonly used to measure mass in the metric system?

1. Gram
2. Liter
3. Meter
4. Celsius

Q223 - Science - Units and measurement

What is the metric unit for measuring volume?

1. Liter
2. Gram
3. Meter
4. Kelvin

Q224 - Science - Units and measurement

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

1. Hour
2. Minute
3. Second
4. Day

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Q225 - Science - Units and measurement

Which unit measures energy in the International System of Units (SI)?

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

Q226 - Science - Units and measurement

What is the boiling point of water in Fahrenheit?

1. 100 degrees
2. 212 degrees
3. 32 degrees
4. 0 degrees

Q227 - Science - Units and measurement

Which unit is used to measure electrical resistance?

1. Ampere
2. Volt
3. Ohm
4. Watt

Q228 - Science - Units and measurement

Which unit is used to measure electrical resistance?

1. Ohm
2. Volt
3. Ampere
4. Watt

Q229 - Science - Units and measurement

What is the standard unit of length in the metric system?

1. Meter
2. Kilometer
3. Centimeter
4. Millimeter

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Q230 - Science - Units and measurement

At what temperature does water freeze in Celsius?

1. 32 degrees
2. 0 degrees
3. 100 degrees
4. -273 degrees

Q231 - Science - Units and measurement

What is the SI unit of electric current?

1. Ohm
2. Volt
3. Ampere
4. Coulomb

Q232 - Science - Units and measurement

Which temperature scale is primarily used in scientific research?

1. Celsius
2. Kelvin
3. Fahrenheit
4. Rankine

Q233 - Science - Units and measurement

What is the SI unit of force?

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

Q234 - Science - Physics: Energy

What is the energy possessed by an object due to its motion called?

1. Kinetic energy
2. Potential energy
3. Thermal energy
4. Chemical energy

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Q235 - Science - Physics: Energy

Which form of energy is stored in an object because of its position or state?

1. Kinetic energy
2. Potential energy
3. Thermal energy
4. Electrical energy

Q236 - Science - Physics: Energy

Gravitational potential energy is highest when an object is...

1. At its highest point
2. Moving fastest
3. At its lowest point
4. Not moving

Q237 - Science - Physics: Energy

What is the law that states energy cannot be created or destroyed, only transformed?

1. Law of Conservation of Mass
2. Law of Conservation of Energy
3. Newton's First Law
4. Newton's Third Law

Q238 - Science - Physics: Energy

Which type of energy transformation occurs in a battery-powered flashlight when turned on?

1. Chemical energy to light energy
2. Electrical energy to chemical energy
3. Light energy to thermal energy
4. Thermal energy to chemical energy

Q239 - Science - Physics: Energy

What is the unit of measurement for energy in the International System of Units (SI)?

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

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Q240 - Science - Physics: Energy

If a 2 kg object is moving at a speed of 3 m/s, what is its kinetic energy? (Use the formula $KE = 0.5 \text{ mass velocity}^2$)

1. 3 Joules
2. 6 Joules
3. 9 Joules
4. 12 Joules

Q241 - Science - Physics: Energy

What happens to kinetic energy when an object's speed is doubled?

1. Increases four times
2. Doubles
3. Stays the same
4. Decreases

Q242 - Science - Physics: Energy

Which form of energy is associated with the random motion of particles within a substance?

1. Chemical energy
2. Nuclear energy
3. Thermal energy
4. Sound energy

Q243 - Science - Physics: Energy

What type of energy transformation occurs when a plant performs photosynthesis?

1. Light energy to chemical energy
2. Chemical energy to thermal energy
3. Thermal energy to light energy
4. Electrical energy to chemical energy

Q244 - Science - Physics: Energy

Which of the following is an example of potential energy?

1. A moving car
2. A compressed spring
3. A flowing river
4. A spinning top

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Q245 - Science - Physics: Energy

In the context of energy, what does the term 'work' refer to?

1. The rate at which energy is used
2. The force applied to an object
3. The transfer of energy through motion
4. The amount of heat produced

Q246 - Science - Physics: Energy

Which of the following factors affect gravitational potential energy?

1. Mass and height
2. Speed and mass
3. Height and speed
4. Mass only

Q247 - Science - Physics: Energy

What does a graph of kinetic energy vs. speed typically show?

1. A linear increase
2. A constant value
3. An exponential increase
4. A decrease

Q248 - Science - Physics: Energy

What type of energy conversion occurs when a stretched rubber band is released?

1. Elastic to kinetic
2. Kinetic to potential
3. Chemical to kinetic
4. Thermal to electrical

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Answer Key

- Q1: Igneous rocks
- Q2: Lithification
- Q3: Inner core
- Q4: Plate Tectonics
- Q5: Sedimentary rocks
- Q6: Weathering
- Q7: Divergent
- Q8: Pangaea
- Q9: Movement of tectonic plates
- Q10: Metamorphic
- Q11: Earthquake
- Q12: Lava
- Q13: Erosion
- Q14: Outer Core
- Q15: Lithification
- Q16: The Sun
- Q17: Apex predators
- Q18: Mutualism
- Q19: Primary succession
- Q20: A complex network of interconnected food chains
- Q21: A bird eating insects off a rhino's back
- Q22: To break down dead organisms and recycle nutrients
- Q23: Symbiosis
- Q24: The study of weather and atmospheric conditions
- Q25: Condensation
- Q26: By average temperature and precipitation
- Q27: Air masses
- Q28: Carbon dioxide
- Q29: Barometer
- Q30: Troposphere
- Q31: Climate
- Q32: Differences in air pressure
- Q33: Cumulonimbus
- Q34: A front

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Q35: The rotation of storm systems due to Earth's rotation

Q36: Humidity

Q37: Cold front

Q38: Carbon dioxide

Q39: Light-year

Q40: Gravity

Q41: Kepler's Third Law

Q42: Sputnik 1

Q43: Distance from the Sun

Q44: Elliptical

Q45: Perihelion

Q46: Hydrogen

Q47: Venus

Q48: Jupiter

Q49: Neutron Star

Q50: Kepler's Third Law

Q51: Parallax method

Q52: Olympus Mons

Q53: Mercury

Q54: Lymphatic system

Q55: To secrete hormones

Q56: Pituitary gland

Q57: Genotype

Q58: AA

Q59: A possible genotype of offspring

Q60: The physical expression of genes

Q61: a

Q62: One

Q63: To filter lymph and trap pathogens

Q64: Insulin

Q65: A change in the DNA sequence

Q66: Circulatory system

Q67: Possible offspring traits

Q68: One

Q69: Atom

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- Q70: Proton
- Q71: Na
- Q72: Helium
- Q73: 7
- Q74: Covalent
- Q75: Nitrogen
- Q76: Iodine
- Q77: H₂O
- Q78: Sublimation
- Q79: Oxygen
- Q80: Law of Conservation of Mass
- Q81: Table Salt
- Q82: Synthesis
- Q83: Evaporation
- Q84: Gregor Mendel
- Q85: Leaves
- Q86: Chlorophyll
- Q87: Carbon Dioxide
- Q88: Glucose
- Q89: Oxygen
- Q90: Chloroplast
- Q91: Exchanging gases
- Q92: Asexual reproduction
- Q93: Traits are inherited randomly
- Q94: Transpiration
- Q95: Aa
- Q96: ATP
- Q97: Sexual reproduction
- Q98: Roots
- Q99: The Sun
- Q100: Apex predators
- Q101: Mutualism
- Q102: Primary succession
- Q103: A complex network of interconnected food chains
- Q104: A bird eating insects off a rhino's back
- Q105: To break down dead organisms and recycle nutrients

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- Q106: Symbiosis
- Q107: The variety of life in an ecosystem
- Q108: Sunlight
- Q109: Reduces habitat availability
- Q110: Coal
- Q111: They can outcompete native species
- Q112: Producers
- Q113: Causes habitat destruction
- Q114: The Sun
- Q115: Apex predators
- Q116: A close and long-term interaction between two different species
- Q117: The development of plant and animal life in an area without soil
- Q118: Swamp
- Q119: They break down dead organisms, returning nutrients to the soil.
- Q120: A complex network of interconnected food chains
- Q121: Mutualism
- Q122: To protect marine biodiversity and habitats
- Q123: Primary succession
- Q124: Producer
- Q125: To recycle nutrients into the soil
- Q126: Sunlight
- Q127: To produce energy in the form of glucose
- Q128: The variety of life in an ecosystem
- Q129: Carbohydrates
- Q130: Nucleic Acids
- Q131: Amino acids
- Q132: Lipids
- Q133: Speed up reactions
- Q134: Water
- Q135: Mitochondria
- Q136: To break down food for energy
- Q137: Oxygen
- Q138: Photosynthesis
- Q139: ATP
- Q140: DNA
- Q141: Lipids

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- Q142: Glycolysis
- Q143: Starch
- Q144: A homogeneous mixture of two or more substances
- Q145: Solvent
- Q146: It increases
- Q147: Saturated
- Q148: Increases solubility
- Q149: Supersaturated
- Q150: Solute
- Q151: Color of solute
- Q152: Filtration
- Q153: Evaporation
- Q154: Carbonated soda
- Q155: Both temperature and pressure
- Q156: It speeds it up
- Q157: Dilute
- Q158: Distillation
- Q159: $\text{Velocity} = \frac{\text{Distance}}{\text{Time}}$
- Q160: 50 km/h
- Q161: A cyclist slowing down to a stop.
- Q162: The object accelerates in the direction of the force.
- Q163: Newton
- Q164: 20 N
- Q165: A book resting on a table.
- Q166: For every action, there is an equal and opposite reaction.
- Q167: 5 N in the direction of the larger force
- Q168: Zero
- Q169: It increases steadily.
- Q170: The resistance to a change in motion.
- Q171: Both gravity and air resistance.
- Q172: It becomes one-fourth.
- Q173: A car accelerating when the gas pedal is pressed.
- Q174: Forming a hypothesis
- Q175: Hypothesis
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- Q175: Hypothesis

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- Q176: To serve as a standard for comparison
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- Q178: Evidence
- Q179: Conclusion
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- Q181: Blue color
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- Q190: To solve practical problems
- Q191: To keep track of design changes
- Q192: Defining the problem
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- Q199: It brings diverse perspectives
- Q200: To understand the limitations and requirements
- Q201: It provides information for improvement
- Q202: Specific material requirements
- Q203: To explore different approaches
- Q204: Energy production
- Q205: Boyle's Law
- Q206: Phenotype
- Q207: Argon
- Q208: NaCl
- Q209: Jupiter
- Q210: Mitochondria
- Q211: Osmosis

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- Q212: 9.8 m/s
- Q213: Circulatory system
- Q214: Nitrogen
- Q215: Igneous
- Q216: Photosynthesis
- Q217: Electron
- Q218: Inclined plane
- Q219: Meter
- Q220: 212 degrees
- Q221: Gram
- Q222: Gram
- Q223: Liter
- Q224: Second
- Q225: Joule
- Q226: 212 degrees
- Q227: Ohm
- Q228: Ohm
- Q229: Meter
- Q230: 0 degrees
- Q231: Ampere
- Q232: Kelvin
- Q233: Newton
- Q234: Kinetic energy
- Q235: Potential energy
- Q236: At its highest point
- Q237: Law of Conservation of Energy
- Q238: Chemical energy to light energy
- Q239: Joule
- Q240: 9 Joules
- Q241: Increases four times
- Q242: Thermal energy
- Q243: Light energy to chemical energy
- Q244: A compressed spring
- Q245: The transfer of energy through motion
- Q246: Mass and height
- Q247: An exponential increase
- Q248: Elastic to kinetic