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FIRST GRADE

Assessment Test Science 1 1 MID YEAR

Materials Can Be Solids, Liquids, and Gases (Days 1-44) Materials Can Change When They are Mixed (Days 45-86)

- 1. Matter comes in? Available answers: Liquid; Solid; Gas. All of the above. Answer: All of the above.
- 2. Is this a solid, liquid, or gas? Available answers: Solid; Liquid; Gas. Answer: Solid
- 3. When water moves around the planet it is called? Available answers: The Water Cycle; The Earth Cycle; The Life Cycle. Answer: The Water Cycle.
- 4. What happens when you mix different materials? Available answers: The materials stay the same; The materials change. Answer: The materials change.
- 5. What happens when materials are mixed? Available answers: A chemical change can happen; A physical change can happen; A chemical or physical change can happen. Answer: A chemical or physical change can happen.
- 6. When a chemical change happens? Available answers: A new substance is formed; The change is not reversible; Both of the above. Answer: Both of the above.
- 7. When ice melts, it is a? Available answers: Chemical change; Physical change; Both of the above. Answer: A physical change.
- 8. A soluble material will? Available answers: Dissolve in water; Not dissolve in water. Answer: Dissolve in water.
- 9. This material is a living organism and is used to make bread rise. What is it? Available answers: Flour; Salt; Yeast. Answer: Yeast.
- 10. Sand is? Available answers: A soluble material (dissolves in liquid); An Insoluble material (does not dissolve in liquid). Answer: An insoluble material.

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FIRST GRADE

Assessment Test Science 1 2 END OF YEAR

Plants and Animals that Inhabit Different Environments (Days 87-130) Food Chain Ecosystems (Days 131-147) How Things Work (Days 148-174)

- 1. What is a habitat? Available answers: An area that a particular animal lives in; Food that a particular animal eats; A place where different animals meet. Answer: An area that a particular animal lives in.
- 2. What habitat does a penguin live in? Available answers: Very cold; Very hot; Very dry. Answer: Very cold.
- 3. The polar bear is also known as a marine animal because it spends many months of the year? Available answers: Hibernating; At sea; In the mountains. Answer: At sea.
- 4. What habitat does a camel live in? Available answers: Deserts; Mountains; Rainforests. Answer: Deserts.
- 5. The Toucan bird makes their nests in tree hollows and lives in? Available answers: The United States; Southern Mexico and Central America; Europe. Answer: Southern Mexico and Central America.
- 6. In the food chain, plants are called? Available answers: Consumers; Producers; Decomposers. Answer: Producers.
- 7. In the food chain, animals are called? Available answers: Consumers; Decomposers; Producers. Answer: Consumers.
- 8. Animals that only eat plants are called? Available answers: Herbivores; Omnivores; Carnivores. Answer: Herbivores.
- 9. Animals that eat both plants and animals are called? Available answers: Carnivores; Herbivores; Omnivores. Answer: Omnivores.
- 10. A bee is a? Available answers: Herbivore; Pollinator; Scavenger. Answer: Pollinator.

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SECOND GRADE

Assessment Test Science 2 1 MID YEAR

Motion of Objects (Days 1-44) Measurements (Days 53-55) Life Cycles of Plants and Animals (Days 59-101)

- 1. Everything in the Universe? Available answers: Moves; Does not move; Moves sometimes. Answer: Moves.
- 2. Earth moves around the? Available answers: Moon; Sun; Earth. Answer: Sun.
- 3. Mass is? Available answers: The amount of something; The amount something moves; Speed. Answer: The amount of something.
- 4. What makes an object move? Available answers: Force; People, Measurement. Answer: Force.
- 5. A plant starts off as a? Available answers: Leaf; Seed; Stem. Answer: Seed.
- 6. Plants grow and get food from? Available answers: Water; Fertilizer; Photosynthesis. Answer: Photosynthesis.
- 7. A process by which a seed develops into a seedling is called? Available answers: Germination; Photosynthesis; Hibernation. Answer: Germination.
- 8. Butterfly larvae are also called? Available answers: Caterpillars; Pupa; Imago. Answer: Caterpillars.
- 9. Corn is also called? Available answers: Maize; Grits; Cob. Answers: Maize.
- 10. Inside the seed is the? Available answers: Embryo; Plant; Seed Coat. Answer: Embryo.

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SECOND GRADE

Assessment Test Science 2 2 END OF YEAR

Materials the Earth is Made of and Human Resources (Days 102-120 Conservation (Days 121-145) How Things Work (Days 146-174)

- 1. Naturally occurring materials found on Earth are called? Available answers: Agriculture; Industry; Raw Minerals. Answer: Raw Minerals.
- 2. A rock is a? Available answers: Naturally occurring solid of one or more minerals; Piece of dirt that has grown together to form a solid; Chemical compound. Answer: Naturally occurring solid of one or more minerals.
- 3. Igneous rock are formed by? Available answers: Erosion and water; The cooling and solidification of magma or lava; The accumulation and cementation of fragments of earlier rocks, minerals, and organisms. Answer: The cooling and solidification of magma or lava.
- 4. Sedimentary rocks are formed by? Available answers: The cooling and solidification of magma or lava; The accumulation and cementation of fragments of earlier rocks, minerals, and organisms; Subjecting the rock to temperature. Answer: The accumulation and cementation of fragments of earlier rocks, minerals, and organisms.
- 5. Quartz is a? Available answers: Precious stone; Mineral; Rock. Answer: Mineral
- 6. Conservation is about? Available answers: Using natural resources so they don't go to waste; Protecting natural resources for the future; Storing natural resources to use later. Answer: Protecting natural resources for the future.
- 7. Renewable resources means? Available answers: Things from the earth that can replenish or rebuild naturally; things from the earth that cannot rebuild themselves; **T**hings from the earth that can be reused. Answer: Things from the earth that can replenish or rebuild naturally.
- 8. A process to change trash materials into new products is called? Available answers: Renewing; Recycling; Reusing. Answer: Recycling.
- 9. Which is not a natural resource? Available answers: trees; water; glass. Answer: glass.
- 10. What can people do to help conserve? Available answers: Only buy what you need; Reuse things that you buy; Recycle instead of throwing things out; All of the above. Answer: All of the above.

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THIRD GRADE

Assessment Test Science 3 1 MID YEAR

The World's Oceans (Days 1-56)
Plants and Animals that Inhabit the Oceans (Days 57-90)

- 1. The oceans cover what percentage of the Earth? Available answers: 90%; 70%; 50%. Answer: 70%.
- 2. The largest ocean is the? Available answers: Pacific Ocean; Atlantic Ocean; Indian Ocean. Answer: Pacific Ocean.
- 3. The deepest part of the oceans is the? Available answers: The Mariana Trench in the Pacific Ocean; The Continental Shelf; The Ocean Floor. Answer: The Mariana Trench in the Pacific Ocean.
- 4. The Bering Sea is located? Available answers: In the Pacific Ocean between Alaska and Russia; In the Atlantic Ocean on the Northeast of the United States; In the Indian Ocean. Answer: In the Pacific Ocean between Alaska and Russia.
- 5. The zone where photosynthesis happens and that has the most diverse life in it is called the? Available answers: Photic zone; Hadalpelagic zone; Neritic zone. Answer: Photic zone.
- 6. Plankton is a food source for? Available answers: Clams and other shellfish; Fish and whales; Animals that live in the tide pools. Answer: Fish and whales.
- 7. Most marine life is found in? Available answers: Coastal habitats; Open ocean; The sea bottom. Answer: Coastal habitats.
- 8. Star fish are? Available answers: Vertebrates; Invertebrates; Neither. Answer: Invertebrates.
- 9. The Great Barrier Reef is located near? Available answers: Australia; South America; Hawaii. Answer: Australia.
- 10. A shark is a? Available answers: Fish; Mammal, Invertebrate. Answer: Fish.

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THIRD GRADE

Assessment Test Science 3 2 END OF YEAR

Plants and Animals that Inhabit the Oceans (Days 90-120) Effects of Human Involvement with the Oceans (Days 121–140) Oceanography: The Study of the Ocean (Days 141-180)

- 1. Is coral a plant or an animal? Available answers: Animal; Plant. Answer: Animal.
- 2. The pelagic zone is also known as? Available answers: Coastal area; Open water; Deep water. Answer: Open water.
- 3. Seaweed, kelp, and mangroves are all? Available answers: Microscopic organisms; Plants in the ocean; Ocean animals that look like plants. Answer: Plants in the ocean.
- 4. Sunlight illuminates only the? Available answers: Pelagic zone; Upper layers of the ocean; Continental shelf. Answer: Upper layers of the ocean.
- 5. Abalone, anemones, sea stars, and sea cucumbers all live in the? Available answers: Deep water zone; Low tide zone; Intertidal zone. Answer: Low tide zone.
- 6. Whales and dolphins are? Available answers: Crustaceans; Fish; Mammals. Answer: Mammals.
- 7. Runoff that occurs on surfaces before reaching the ocean is called? Available answers: Sewage; Surface Runoff; Recycled Water. Answer: Surface Runoff.
- 8. The ph balance in oceans has to do with? Available answers: Acidification levels; Trash; Over fishing. Answer: Acidification levels.
- 9. The largest accidental oil spill in history is? Available answers: The BP Oil Spill in the Gulf of Mexico; The Exxon Valdez Spill in Alaska; Lake Michigan Oil Spill. Answer: The BP Oil Spill in the Gulf of Mexico.
- 10. What is the name of a person that studies the ocean? Available answers: Marine Researcher; Oceanographer; Oceanoligist. Answer: Oceanographer.

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FOURTH GRADE

Assessment Test Science 4 1 MID YEAR

Electricity and magnetism of the Earth (Days 1-44) Organisms Need Energy and Matter to Live and Grow (Days 45-91)

- 1. Electromagnetism helped Albert Einstein develop? Available answers: Theory of Relativity; The light bulb; Frequencies. Answer: Theory of Relativity.
- 2. A magnet? Available answers: Does not attract iron; Attracts or repels other objects; Has east and west poles. Answer: Attracts or repels other objects.
- 3. Earth? Available answers: Is a giant electromagnet; Only receives magnetic energy from the Sun; Is not magnetic at all. Answer: Is a giant electromagnet.
- 4. The magnetic field is? Available answers: Invisible; Blue; Part of the atmosphere. Answer: Invisible.
- 5. Materials that can be magnetized, or strongly attracted to magnets are called? Available answers: Magnetic; Composites; Ferromagnetic. Answer: Ferromagnetic.
- 6. Earth's magnetic field is sometimes called? Available answers: Electromagnetic field; Geomagnetic Field; Earthical Field. Answer: Geomagnetic Field.
- 7. Organisms are? Available answers: Complex chemical systems that cannot reproduce; Complex chemical systems that promote reproduction and some measure of sustainability or survival; Complex cellular systems that depend on other organisms to survive. Answer: Complex chemical systems that promote reproduction and some measure of sustainability or survival.
- 8. An organism may be either? Available answers: Stimuli; Prokaryote; Eukaryote; B or C. Answer: B or C.
- 9. In biology, any contiguous living system is? Available answers: An animal; A fungus; An organism. Answer: An organism.
- 10. Yeast is a? Available answers: Micro-organism; Virus; Bacteria. Answer: Micro-organism.

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FOURTH GRADE

Assessment Test Science 4 2 END OF YEAR

Properties of Rocks and Minerals (Days 92-155) Fossils (Days 156-179)

- 1. The Earth's outer solid layer, the lithosphere, is made of? Available answers: Clay; Rock; Sediment. Answer: Rock.
- 2. The three major groups of rocks are? Available answers: Igneous, sedimentary, and metamorphic; Volcanic, sandstone, and minerals; Quartz, limestone, and sandstone. Answer: Igneous, sedimentary, and metamorphic.
- 3. Amethyst and diamonds are called? Available answers: Metals; Minerals; Rocks. Answer: Minerals.
- 4. Minerals are? Available answers: Naturally occurring; Stable at room temperature; Both of the above. Answer: Both of the above.
- 5. The extraction of minerals or other geological materials from the earth is called? Available answers: Geology; Excavation; Mining. Answer: Mining
- 6. Rocks formed through the cooling and solidification of magma or lava are called? Available answers: Igneous; Sedimentary; Metamorphic; Igneous. Answer: Igneous.
- 7. The total minerals forming the rock are held together by? Available answers: Chemical bonds; Heat; Silica. Answer: Chemical bonds.
- 8. The preserved remains or traces of animals, plants, and other organisms from the remote past are called? Available answers: Fossils; Skeletons; Dinosaurs. Answer: Fossils.
- 9. Paleontologists rely on this to date fossils? Available answers: Fossil Records; Minerals; Stratigraphy. Answer: Stratigraphy.
- 10. The study of preserved remains from the past is called? Available answers: Archeology; Biology; Paleontology. Answer: Paleontology.

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FIFTH GRADE

Assessment Test Science 5 1 MID YEAR

Types of Matter (Days 1-24)
Plant and Animal Anatomy Structures (Days 25-53)
Movement of Water in Oceans and Lands (Days 54-76)
Energy from the Sun (Days 77-90)

- 1. What is matter? Available answers: Matter is anything that has mass and volume; Matter is made of atoms; Matter can be liquid, solid, or gas; All of the above. Answer: All of the above.
- 2. Gravity is? Available answers: A natural phenomenon which physical things attract each other and causes objects to fall to the ground when dropped; A natural phenomenon that causes objects to float; The result of the moon and the tides. Answer: A natural phenomenon which physical things attract each other and causes objects to fall to the ground when dropped.
- 3. What is the center of an atom? Available answers: The Electron; The Nucleus; The Proton. Answer: The Nucleus.
- 4. Atoms are made up of? Available answers: Protons, neutrons, and electrons; Hydrogen and oxygen; Energy and vibrations. Answer: Protons, neutrons, and electrons.
- 5. How does water change to different states of matter? Available answers: By adding another substance to it; By temperature change; By pressure. Answer: By temperature change.
- 6. An animal that has a backbone is called a? Available answers: Vertebrate; Invertebrate; Amphibian. Answer: Vertebrate.
- 7. The process by which plants produce oxygen is called? Available answers: Respiration; Photosynthesis; Pollination. Answer: Photosynthesis.
- 8. A mammal has? Available answers: Lungs; Nervous system; Reproduction system; All of the above. Answer: All of the above.
- 9. The earth's primary source of energy is? Available answers: Gravity; The Moon; The Sun. Answer: The Sun.
- 10. What is the Sun made of? Available answers: Iron and is solid; Nitrogen and is Oxygen; Plasma and is not solid. Answer: Plasma and is not solid

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FIFTH GRADE

Assessment Test Science 5 2 END OF YEAR

Energy from the Sun (Days 91-110) The Solar System (Days 111-170) Environments (Days 171-179)

- 1. The Sun is primarily composed of these elements? Available answers: Hydrogen and Helium; Hydrogen and Oxygen; Hydrogen and Nitrogen. Answer: Hydrogen and Helium.
- 2. The core of the Sun produces the most? Available answers: Plasma; Sunlight; Thermal energy. Answer: Thermal energy.
- 3. Radiant light and heat from the sun is called? Available answers: Radiation; Solar energy; Fossil fuel. Answer: Solar energy.
- 4. Building design, windows, walls, and floors made to collect and distribute solar energy is called? Available answers: Active solar; Passive Solar; Thermal Solar. Answer: Passive Solar.
- 5. Which planet in our solar system is closest to the Sun? Available answers: Mars; Mercury; Venus. Answer: Mercury.
- 6. The majority of the Solar System's mass is? Available answers: The Sun; The Planets; The Milky Way. Answer: The Sun.
- 7. Earth's moon is a? Available answers: Natural Satellite; Planet; Star. Answer: Natural Satellite.
- 8. When a planet goes around the Sun it is called an? Available answers: Orbit; Rotation; Circular. Answer: Orbit.
- 9. What is the name of the second largest planet in the Solar System that is a gas giant with rings? Available answers: Jupiter; Saturn; Uranus. Answer: Saturn.
- 10. The furthest planet from the Sun is? Available answers: Neptune; Uranus; Jupiter. Answer: Neptune.

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SIXTH GRADE

Assessment Test Science 6 1 MID YEAR

Plate Tectonics and Earth's Structure (Days 1-29) Topography of the Earth's Surface (Day 30-56) Heat (Thermal Energy) (Days 57-86)

- 1. Driving forces behind plate movement includes? Available answers: Gravity; Earth's rotation; Mantle dynamics; All of the above. Answer: All of the above.
- 2. The three types of plate boundaries are? Available answers: Convergent, divergent, and tansform; Convergent, reversal, and transform; Transform, reversal, and contingent. Answer: Convergent, divergent, and transform.
- 3. Pangaea is? Available answers: A supercontinent that existed sometime in the past; The breaking up of all the continents millions of years ago; A land formation that had multiple oceans surrounding it millions of years ago. Answer: A supercontinent that existed sometime in the past.
- 4. Topography is the study of? Available answers: The surface shape and features of the Earth; The oceans and its' animal life; Earthquakes. Answer: The surface shape and features of the Earth.
- 5. The height of a geographic land forms is called? Available answers: Sea Level; Elevation; Equator. Answer: Elevation.
- 6. Geographers might use this to locate places on the Earth? Available answers: Compass; Telescope; Topographical map. Answer: Topographical map.
- 7. The process by which soil and rock are removed from the Earth's surface by wind or water flow is? Available answers: Deposition; Erosion; Sedimentation. Answer: Erosion.
- 8. The transfer of heat occurs by? Available answers: Conduction; Radiation; Convection; Any of the above. Answer: Any of the above.
- 9. The transfer of heat from one object to another is also? Available answers: First law of thermodynamics; Second law of thermodynamics; Third law of thermodynamics. Answer: Second law of thermodynamics.
- 10. In physics, heat is measured with a unit from the International Systems of Units called a? Available answers: Degrees; Temperature; Joule. Answer: Joule.

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SIXTH GRADE

Assessment Test Science 6 2 END OF YEAR

Energy from the Sun, Ocean, and Earth (Days 87-120) Ecology: How Organisms Exchange Energy and Nutrients (Day 121-140) How Energy and matter Differ in Amounts and Use (Days 141-174)

- 1. The earth's primary source of energy is? Available answers: Gravity; The Moon; The Sun. Answer: The Sun.
- 2. What is the Sun made of? Available answers: Iron and is solid; Nitrogen and is Oxygen; Plasma and is not solid. Answer: Plasma and is not solid.
- 3. Radiant light and heat from the sun is called? Available answers: Radiation; Solar energy; Fossil fuel. Answer: Solar energy.
- 4. Building design, windows, walls, and floors made to collect and distribute solar energy is called? Available answers: Active solar; Passive solar; Thermal solar. Answer: Passive Solar.
- 5. Energy generated and stored in the Earth is called? Available answers: Geothermal energy; Internal energy; Tectonic energy. Answer: Geothermal energy.
- 6. In an ecosystem, plants are? Available answers: Consumers; Producers; Decomposers. Answer: Producers.
- 7. Plants and animals take in matter from? Available answers: Animals; Plants; Environment. Answer: Environment.
- 8. Energy of an object can be transferred, but it cannot be? Available answers: Created; Destroyed; Both of the above. Answer: Both of the above.
- 9. According to mass-energy equivalence, all forms of energy have? Available answers: Mass; Equivalence; Shape. Answer: Mass.
- 10. Energy comes in? Available answers: Many forms; A single form; Two forms. Answer: Many forms.

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SEVENTH GRADE

Assessment Test Science 7 1 MID YEAR

Cell Biology (Days 1-66)

Genetics and How Plants and Animals Evolve (Day 67-90)

- 1. The cell is the basic structural, functional and biological unit of all? Available answers: Plants; Animals; Living Organisms. Answer: Living Organisms.
- 2. The first form of life on Earth were? Available answers: DNA; Prokaryotic cells; Eukaryotic cells. Answer: Prokaryotic cells.
- 3. The first person to formulate a scientific argument for the theory of evolution was? Available answers: Charles Darwin; Thomas Robert Malthus; Gregor Mendel. Answer: Charles Darwin.
- 4. A cell is enclosed within a? Available answers: Membrane; Nucleus; Ribosome. Answer: Membrane.
- 5. Bacteria has cells called? Available answers: Eukaryotes; Prokaryotes; Allium. Answer: Prokaryotes.
- 6. Prokaryotic cells do not have a? Available answers: Membrane; Nucleus; Cell Wall. Answer: Nucleus.
- 7. DNA stands for? Available answers: Deoxyribonucleic Acid; Dynamic Nuclear Acid; Chromosomes. Answer: Deoxyribonucleic Acid.
- 8. An organized structure of DNA, protein, and RNA found in cells is called? Available answers: Genes; Chromosomes; DNA. Answer: Chromosomes.
- 9. Humans have how many pairs of chromosomes? Available answers: 12; 23; 16. Answer: 23.
- 10. Offsprings take on traits of their parents from? Available answers: Genes; Chromosomes; Habits, Answer: Genes.

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SEVENTH GRADE

Assessment Test Science 7 2 END OF YEAR

Genetics and How Plants and Animals Evolve (Day 91-120) Living Systems of Plants, Animals, and People (Days 121-140) Underlying Biological Structures and Functions (Day 141-179)

- 1. A prokaryotic cell has a? Available answers: Single chromosome; Cell membrane; Both of the above. Answer: Both of the above.
- 2. The change in the inherited characteristics of biological populations over successive generations is called? Available answers: Hereditary; Mutation; Evolution. Answer: Evolution.
- 3. Prokaryotes cells undergo cell division called? Available answers: Binary Fission; Mitosis; Meiosis. Answer: Binary Fission.
- 4. A hollow muscular organ that pumps blood throughout the blood vessels to various parts of the body by repeated, rhythmic contractions is the? Available answers: Brain; Heart; Lungs. Answer: Heart.
- 5. An organ that serves as the center of the nervous system in all vertebrate and most invertebrate animals is? Available answers: The Brain; The Immune System; The Spine. Answer: The Brain.
- 6. The most complex organ in a vertebrate's body is? Available answers: Brain, Heart; Liver. Answer: Brain.
- 7. These are usually considered the most important cells in the brain? Available answers: Glials; Neurons; Receptors. Answer: Neurons.
- 8. The essential respiration organ in many air-breathing animals is? Available answers: Heart; Lung; Stomach. Answer: Lung.
- 9. Where does food first begin the digestion process? Available answers: The mouth; The esophagus; The stomach. Answer: The mouth.
- 10. About how many bones does an adult human have? Available answers: 65; 175, 205. Answer: 205.

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EIGHTH GRADE

Assessment Test Science 8 1 MID YEAR

Motion, Forces, and the Structure of Matter (Days 1-29) Earth I the Solar System, Study of Stars and Galaxies (Day 30-56) Chemical Reactions (Days 57-120)

- 1. Motion is observed by attaching a? Available answers: Force; A frame of reference; A point of acceleration. Answer: A frame of reference.
- 2. Classical mechanics is fundamentally based on? Available answers: Einsteins theory of relativity; Newton's Laws of Motion; The Universal Motion System. Answer: Newton's Laws of Motion.
- 3. What is matter? Available answers: A solid, liquid, or gas; Matter is made up of atoms and molecules; Matter makes up everything; All of the above.
- 4. Liquid, Solid, and Gases are called? Available answers: States of matter; Locations of matter; Particles of matter. Answer: States of matter.
- 5. What is a force? Available answers: Any influence that causes an object to undergo a certain change, either concerning its movement, direction, or geometrical construction; An acceleration of an object by an outside force; a movement that is controlled by gravity. Answer: Any influence that causes an object to undergo a certain change, either concerning its movement, direction, or geometrical construction.
- 6. What is the mathematical equation for Force? Available answers: F = a/b; F = ma; A = f/m. Answer: F = ma.
- 7. What galaxy is Earth located in? Available answers: Andromeda; Milky Way; Ursa Major. Answer: Milky Way.
- 8. Many of the constellations and star names in use today derive from? Available answers: Mesopotamia astronomy; Egypt astronomy; Greek astronomy. Answer: Greek astronomy.
- 9. A tabular arrangement of the chemical elements, organized by their atomic numbers, electron configurations, and recurring chemical properties is called? Elements Table; Isotopes Table; Periodic Table. Answer: Periodic Table.
- 10. Which of the following would create a chemical reaction? Available answers: Baking soda and vinegar; lemon and water; salt and milk. Answer: Baking soda and vinegar.

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EIGHTH GRADE

Assessment Test Science 8 2 END OF YEAR

Chemistry of Living Systems (Days 121-130) The Periodic Table (Day 131-144) Density and Buoyancy (Days 145-170)

- 1. What is water made of? Available answers: 2 parts hydrogen, 1 part oxygen; 2 part oxygen, 1 part hydrogen; 1 part hydrogen, 1 part oxygen. Answer: 2 parts hydrogen, 1 part oxygen.
- 2. The Living systems theory was created by? Available answers: Kenneth D. Bailey; Humberto Maturana; James Grier Miller. Answer: James Grier Miller.
- 3. According to the Living Systems Theory, all living things must have? Available answers: twenty critical subsystems; water, food, and ability to reproduce; energy exchanges. Answer: twenty critical subsystems.
- 4. The atomic number represents? Available answers: The number of atoms in the element; The number of electrons; The number of protons in its nucleus. Answer: The number of protons in its nucleus.
- 5. The number of confirmed elements on the Periodic Table is? Available answers: 98; 114; 118. Answer: 114.
- 6. The element on the Periodic Table that has an atomic number of 1 is called? Available answers: Carbon; Hydrogen; Oxygen. Answer: Hydrogen.
- 7. The most abundant element in the universe on the Periodic Table is? Available answers: Carbon; Hydrogen; Oxygen. Answer: Hydrogen.
- 8. The Periodic Law and periodic table was developed and credited to? Available answers: Dmitri Ivanovich Mendeleev; Julius Lothar Meyer; Glenn Seaborg. Answer: Dmitri Ivanovich Mendeleev.
- 9. The symbol most often used to describe density is? Available answers: d; p; v. Answer: p.
- 10. The mathematical equation for density is? Available answers: Mass divided by volume or m/v; Weight divided by speed or w/s; Volume divided by mass or v/m. Answer: mass divided by volume or m/v.

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NINTH GRADE

Assessment Test Science 9 1 MID YEAR

Physics of Motion and Forces (Days 1-34) Conservation of Energy and Momentum (Day 35-66) Heat and Thermodynamics (Days 167-101)

- 1. Motion is observed by attaching a? Available answers: Force; A frame of reference; A point of acceleration. Answer: A frame of reference.
- 2. Classical mechanics is fundamentally based on? Available answers: Einsteins theory of relativity; Newton's Laws of Motion; The Universal Motion System. Answer: Newton's Laws of Motion.
- 3. What is matter? Available answers: A solid, liquid, or gas; Matter is made up of atoms and molecules; Matter makes up everything; All of the above. Answer: All of the above
- 4. An atom is made up of? Available answers: Liquid, solid, and gas molecules; Particles; Protons, Neutrons, and Electrons. Answer: Protons, Neutrons, and Electrons.
- 5. What is the 2nd law of Motion? Available answers: The acceleration of a body is directly proportional to, and in the same direction as, the net force acting on the body, and inversely proportional to its mass. Thus, F = ma, where F is the net force acting on the object, m is the mass of the object and a is the acceleration of the object; When one body exerts a force on a second body, the second body simultaneously exerts a force equal in magnitude and opposite in direction to that of the first body; When viewed in an inertial reference frame, an object either is at rest or moves at a constant velocity, unless acted upon by an external force. Answer: The acceleration of a body is directly proportional to, and in the same direction as, the net force acting on the body, and inversely proportional to its mass. Thus, F = ma, where F is the net force acting on the object, m is the mass of the object and a is the acceleration of the object.
- 6. Quantum is a latin word that means? Available answers: How much; Infinity; Very large. Answer: How much.
- 7. Liquid, Solid, and Gases are called? Available answers: States of matter; Locations of matter; Particles of matter. Answer: States of matter.
- 8. The (total) energy of a system can increase or decrease only by transferring it in or out of the system is called? Available answers: The law of conservation of energy; Mass energy equivalence; Total energy transfer. Answer: The law of conservation of energy.
- 9. The energy which an object possesses due to its motion is called? Available answers: Potential energy; Kinetic energy; Radiant energy. Answer: Kinetic energy.
- 10. The third law of thermodynamics states that? Available answers: The entropy of a system approaches a constant value as the temperature approaches zero; Heat is a form of energy; If two systems are in thermal equilibrium with a third system, they must be in thermal equilibrium with each other. Answer: The entropy of a system approaches a constant value as the temperature approaches zero.

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NINTH GRADE

Assessment Test Science 9 2 END OF YEAR

Waves (Days 102-130) Electric and Magnetic Phenomena (Day 131-150) Time and Space (Days 151-170)

- 1. A wave transfers energy from? Available answers: The top to the bottom; One point to another; Both of the above. Answer: One point to another.
- 2. What are the two main types of waves? Available answers: Ocean and Space; Mechanical and Electromagnetic; Light and Sound. Answer: Mechanical and Electromagnetic.
- 3. What is a wave? Available answers: A disturbance or oscillation that travels through space and matter, accompanied by a transfer of energy; A specific motion that continues with the same force for infinity; When two energy forces come together to create a third energy force. Answer: A disturbance or oscillation that travels through space and matter, accompanied by a transfer of energy.
- 4. An example of an electromagnetic wave is? Available answers: Radio wave; Sound wave; Surface wave. Answer: Radio wave.
- 5. One of the four fundamental interactions in nature is? Available answers: Electromagnetism; Gravity; Strong interaction; All of the above. Answer: All of the above.
- 6. Electricity and magnetism are? Available answers: Regulated by one force with positive and negative charges; Two separate forces; Both of the above. Answer: Regulated by one force with positive and negative charges.
- 7. The fundamental measuring unit of Electromagnetism is? Available answers: Ampere (electric current); Volt (electric potential); Coulomb (electric charge). Answer: Ampere (electric current). Answer: Ampere (electric current).
- 8. Electromagnetic force is sometimes called? Available answers: Einstein force; Lorentz force; Newton force. Answer: Lorentz force.
- 9. The base unit of time is? Available answers: The Minute; The Second; The Hour. Answer: The Second.
- 10. What is time and space together or spacetime? Available answers: A mathematical model that combines space and time into a single interwoven continuum; The fourth dimension; Both of the above. Answer: Both of the above.

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TENTH GRADE

Assessment Test Science 10 1 MID YEAR

Atomic and Molecular Structure (Days 1-15) Chemical Bonds (Days 16–29) Conservation of Matter and Stoichiometry (Days 30-44) Gases and their Properties (Days 45-61) Acids and Bases (Days 62-81) Solutions (Days 82-91)

- 1. What is an element? Available answers: A pure substance which is composed of a single type of atom; A substance containing multiple types of atoms; Multiple items from the periodic table. Answer: A pure substance which is composed of a single type of atom.
- 2. An Atom is? Available answers: The basic unit of chemistry; Made up of positively charged protons and uncharged neutrons; The smallest entity that can be envisaged to retain the chemical properties of the element; All of the above. Answer: All of the above.
- 3. A chemical bond is? Available answers: An attraction between atoms that allows the formation of chemical substances that contain two or more atoms; A reaction between atoms; A substance of a single type of atom containing multiple elements. Answer: An attraction between atoms that allows the formation of chemical substances that contain two or more atoms.
- 4. A chemical compound is a pure chemical substance composed of more than one element. What is the chemical formula for water? Available answers: H2O; CO2; W2O. Answer: H2O.
- 5. Who discovered Conservation of Mass? Available answers: Antoine Lavoisier; Albert Einstein; Nikola Tesla. Answer: Antoine Lavoisier.
- 6. Gas is described by what four characteristics? Available answers: Liquid, solid, gas, and plasma; Pressure, volume, number of particles, and temperature; Temperature, smell, and mass. Answer: Pressure, volume, number of particles, and temperature.
- 7. Boyle's law shows that? Available answers: for an ideal gas at constant pressure, the volume is directly proportional to its temperature; at constant temperature pressure and volume is always constant; gas is proportional to the number of molecules present. Answer: at constant temperature pressure and volume is always constant.
- 8. Which of the following is an acid? Available answers: Baking soda; Potassium hydroxide; Lemons. Answer: Lemons.
- 9. Potassium hydroxide, Cesium hydroxide and Calcium hydroxide are? Available answers: Weak bases; Strong bases; Acids. Answer: Strong Bases.
- 10. Homogeneous means? Available answers: The components of the mixture form a single phase; The particles of a solution are in harmony with each other; The solution can change phases. Answer: The components of the mixture form a single phase.

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Assessment Test Science 10 2 END OF YEAR

Chemical Thermodynamics (Days 92-101) Chemical Reactions (Days 102-120) Chemical Equilibrium (Days 121-130) Organic Biochemistry (Days 131-145) Nuclear Processes (Days 146-174)

- 1. Thermodynamics is? Available answers: A branch of natural science concerned with cooling and its relation to temperature; A branch of natural science concerned with heat and temperature and their relation to energy and work; A branch of natural science concerned with measurement of heat in the ocean; Answer: A branch of natural science concerned with heat and temperature and their relation to energy and work.
- 2. A process that leads to the transformation of one set of chemical substances to another is? Available answers: A chemical reaction; A chemical bond; Spontaneous. Answer: A chemical reaction.
- 3. How fast or slow a reaction takes place is known as? Available answers: Kinetics; Reaction rate; Oxidation. Answer: Reaction rate.
- 4. Chemical reactions are usually characterized by? Available answers: A chemical change; Temperature; Reaction rate. Answer: A chemical change.
- 5. Atomic Number 1 on the Period Table is for what chemical element? Available answers: Carbon; Hydrogen; Oxygen. Answer: Hydrogen.
- 6. A tabular arrangement of the chemical elements, organized by their atomic numbers, electron configurations, and recurring chemical properties is called? Available answers: Elements Table; Isotopes Table; Periodic Table. Answer: Periodic Table.
- 7. Which of the following would create a chemical reaction? Baking soda and vinegar; Lemon and water; Salt and milk. Answer: Baking soda and vinegar.
- 8. An example of Chemical Equilibrium is? Available answers: Boiling water; Cold water; Water almost ready to boil. Answer: Boiling water.
- 9. Organic reactions are? Available answers: Chemical reactions involving organic compounds; Chemical reactions involving organic and nonorganic compounds; Neither of the above. Answer: Chemical reactions involving organic compounds.
- 10. Radioactive decay is? Available answers: The process by which a nucleus of an unstable atom loses energy by emitting ionizing radiation; A nuclear reaction or a radioactive decay process in which the nucleus of an atom splits into smaller parts; Ionizing radiation. Answer: The process by which a nucleus of an unstable atom loses energy by emitting ionizing radiation.

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Assessment Test Science 11 1 MID YEAR

Cell Biology (Days 1-34) Genetics (Days 34-66) Ecology (Days 67-90)

- 1. What are the two types of cells? Available answers: phyto and plasma; eukaryote and prokaryote; plant and animal. Answer: eukaryote and prokaryote.
- 2. What is the main difference between Eukaryote and Prokaryote cells? Available answers: Eukaryote cells have a nucleus and Prokaryote cells don't; Eukaryote cells have an exterior wall and prokaryote cells don't; Eukaryote cells have a Cell Membrane and prokaryote cells don't. Answer: Eukaryote cells have a nucleus and Prokaryote cells don't.
- 3. How do eukaryotic cells divide? Available answers: Through processes called Mitosis and Meiosis; Through Binary fission; Through splitting and cloning. Answer: Through processes called Mitosis and Meiosis.
- 4. Prokaryotes cells undergo cell division called? Available answers: binary fission; mitosis; meiosis. Answer: binary fission.
- 5. DNA is organized into long structures called? Available answers: Gene Pairs; Chromosomes; Phosphate Groups. Chromosomes.
- 6. A neuron is a? Available answers: Nerve that stems from the brain; An electronic component of cells; A nerve cell. Answer: A nerve cell.
- 7. Humans have? Available answers: 23 pairs of chromosomes; 46 pairs of chromosomes; 72 pairs of chromosomes. Answer: 23 pairs of chromosomes.
- 8. Prokaryotic cells do not have a? Available answers: membrane; nucleus; cell wall. Answer: nucleus.
- 9. Offsprings take on traits of their parents from? Available answers: genes; chromosomes; habits. Answer: Genes.
- 10. Ecology is? Available answers: The scientific study of the fossils; The scientific study of interactions among organisms and their environment; The scientific study of the atmosphere and oceans. Answer: The scientific study of interactions among organisms and their environment.

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ELEVENTH GRADE

Assessment Test Science 11 2 END OF YEAR

Ecology (Days 91-101) Evolution (Days 102-130) Physiology (Days 131-174)

- 1. A habitat can also be called? Available answers: Biotope; Environment; Living System. Answer: Biotope.
- 2. The variety of organisms is called? Available answers: Biofamily; Genes; Biodiversity. Answer: Biodiversity.
- 3. Ecosystems are also called? Available answers: Communities; Biosystems; Hidden Environments. Answer: Communities.
- 4. What is Evolution? Available answers: Evolution is the change in the inherited characteristics of biological populations over successive generations; Evolution is how humans and animals were first created; Bot of the above. Answer: Evolution is the change in the inherited characteristics of biological populations over successive generations.
- 5. The first to formulate a scientific argument for the theory of evolution was? Available answers: Charles Darwin; Carolus Linnaeus; John Ray. Answer: Charles Darwin.
- 6. In 1865 Gregor Mendel reported that traits were? Available answer: Inherited through segregation of elements (genes); Adapted through environment and behavior; Mutated into new traits. Answer: Inherited through segregation of elements (genes).
- 7. The internal framework of the body is? Available answers: the Muscular System; the Skeletal System; the Immune System. Answer: the Skeletal System.
- 8. A system of the body that protects against disease is? Cardiovascular System; Digestive System; Immune System. Answer: Immune System.
- 9. An organ system that permits blood to circulate and transport nutrients oxygen, carbon dioxide, hormones, and blood cells to and from cells in the body to nourish it and help to fight diseases is? Available answers: The Circulatory System; The Immune System; The Skeletal System. Answer: The Circulatory System.
- 10. The largest structure of the digestive system is the? Available answers: Large intestine; Gastrointestinal tract; Stomach. Answer: Gastrointestinal tract.

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TWELFTH GRADE

Assessment Test Science 12 1 MID YEAR

Earth's Place in the Universe (Days 1-34) Dynamic Earth Processes (Days 35-66) Energy in the Earth System (Days 67-101)

- 1. The outer solar system consists of? Available answers: Mercury, Venus, Earth, and Mars; Jupiter, Saturn, Uranus, and Neptune; The Sun and the Moon. Answer: Jupiter, Saturn, Uranus, and Neptune.
- 2. What is the Sun? Available answers: A star at the center of the Solar System; A planet at the center of the Solar System; A star that exploded billions of years ago. Answer: A star at the center of the Solar System.
- 3. How old do scientists believe the Solar System is? Available answers: 10,000 years; 15 million years; 4.5 billion years. Answer: 4.5 billion years.
- 4. The Astroid Belt lies between? Available answers: Venus and Mars; Jupiter and Pluto; Mars and Jupiter. Answer: Mars and Jupiter.
- 5. The process by which soil and rock are removed from the Earth's surface by processes such as wind or water flow is called? Available answers: Erosion; Deposition; Weathering. Answer: Erosion.
- 6. A process by which thermal radiation from a planetary surface is absorbed by atmospheric greenhouse gases is? Available answers: Greenhouse effect; Thermal process; Convection. Answer: Greenhouse effect.
- 7. The Lithosphere is? Available answers: The outermost shell of a rocky planet; The water on a planet; The area of a planet where plants and animals live. Answer: The outermost shell of a rocky planet.
- 8. The rise and fall of sea levels caused by the combined effects of the gravitational forces exerted by the Moon and the Sun and the rotation of the Earth is called? Available answers: Waves; Tides; Currents. Answer: Tides.
- 9. The combined mass of water found on, under, and over the surface of a planet is called? Available answers: Atmosphere; Hydrosphere; Biosphere. Answer: Hydrosphere.
- 10. Radiant energy is the energy of? Available answers: Energy from the Sun; Electromagnetic waves; Both of the above. Answer: Both of the above.

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Assessment Test Science 12 2 END OF YEAR

Biogeochemical Cycles (Days 102-135) Structure and Composition of the Atmosphere (Days 136-155) Agriculture and Farming (Days 156-179)

- 1. The hydrologic cycle is also known as the? Available answers: Carbon Cycle; Nitrogen Cycle; Water Cycle. Answer: Water Cycle.
- 2. What percent of the Earth's atmosphere is nitrogen? Available answers: 22%; 36%; 78%. Answer: 78%.
- 3. The three biogeochemical cycles that are important for the Earth to sustain life are? Available answers: Carbon, Nitrogen and Water Cycles; Carbon, Phosphorus, and Water Cycles; Carbon, Oxygen, and Sulfer Cycles. Answer: Carbon, Nitrogen and Water Cycles.
- 4. The layer of the atmosphere that is furthest from earth is called the? Available answers: Exosphere; Mesosphere; Stratosphere. Answer: Exosphere.
- 5. The layer of the atmosphere that is closed to earth is called the? Available answers: Biosphere; Mesosphere; Troposphere. Answer: Troposphere.
- 6. With altitude in the atmosphere, air pressure and density? Available answers: increases; decreases; stays the same. Answer: decreases.
- 7. The water cycle effects? Available answers: Geological features of the Earth; Temperature change; Ecosystems on the planet; All of the above Answer: All of the above.
- 8. An organism whose genetic material has been altered using genetic engineering techniques is called? Available answers: Genetically Modified Organism (GMO); Cloning; Organic Organism. Answer: Genetically Modified Organism (GMO).
- 9. Crop rotation, green manures and compost, biological pest control are processes of? Available answers: Commercial Agriculture; Genetically Modified Crops; Organic Farming. Answer: Organic Farming.
- 10. The act of farming using principles of ecology, the study of relationships between organisms and their environment is? Available answers: Organic Farming; Sustainable Agriculture; Genetically Modified Crops. Answer: Sustainable Agriculture.