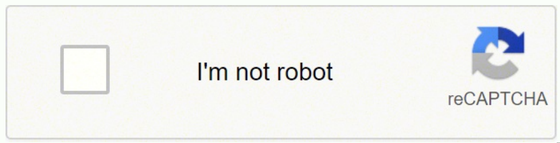

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Mechanical energy = potential energy + kinetic energy. As one moves deeper, the amount of light decreases, water temperature decreases and water pressure increases. The oceans consist of different zones and habitats. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 1Acids, bases and saltsAn acid is a compound that is defined by its physical and chemical properties. Electrical energy speaks for itself. The dust is composed of elements like iron and carbon. Thermal energy is the energy of an objects created by the motion (kinetic energy) of its particles (molecules and atoms). At any one moment in our bodies, thousands of chemical reactions are occurring. A medium can be a solid, liquid or gas. There are about 114 elements and they are organized on a modern Periodic Table of the Elements. For an example, if 5 newtons of force were applied for 5 meters, the amount of work done would be 25Nm. Mechanical advantage = output force/input force. In addition to not having a nucleus, bacteria also do not have many of the other structures that are found in a eukaryotic cell. Read more...iWorksheets: 4Study Guides: 1Vocabulary: 5Photosynthesis and RespirationWhat is Photosynthesis? Read more...iWorksheets: 4Study Guides: 1Vocabulary: 6Energy and energy resourcesMechanical energy is the energy of a moving object such as an airplane in flight. Chemical energy is the potential energy that is stored in chemical bonds. Sound energy is a form of mechanical energy. The Elements are organized by their atomic numbers from top to bottom and left to right. All of these reactions are controlled by catalyst-like chemicals called enzymes. The big ideas in Seventh Grade Science include exploring the sciences within the framework of the following topics: “Cells and Heredity” (structure and function of cells and heredity), “Human Body Systems and Disease” (functions and interconnections within the human body and the breakdown of these functions due to disease); “Ecology: The Biotic and Abiotic Environment” (interactions and responses between biotic and abiotic Indicators and organisms); and “The Chemical Nature of Matter” (classifications and properties of matter, changes in matter).Our Solar SystemSolar systems begin in the dust and gas clouds found in between the stars. There are three stages of the cell cycle: interphase, mitosis, and cytokinesis. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 2Work and machinesWork is the exertion of force through a distance. Read more...iWorksheets: 4Study Guides: 1Vocabulary: 5Agents of Erosion and DepositionFreeForces of weathering and erosion are constantly reshaping Earth's surface. Consequently, lands near the equator have smaller temperature fluctuations throughout the year. Electromagnetic energy is energy that travels in waves. This sudden release of energy created when rocks break is called an earthquake Read more...iWorksheets: 6Study Guides: 1Vocabulary: 7VolcanoesThe intense heat and pressures in the mantle turn solid rock into liquid magma. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 4Introduction to PlantsAll plants are eukaryotes, with numerous cells, and they are all autotrophs, use photosynthesis to make food. In addition, when tested with blue litmus paper, acids turn the paper red. This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. You can find more information and change your preferences herePage 4 This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. A base or hydroxide, like an acid, is also defined by its properties. Acids taste sour and react with metals and polyatomic ions called carbonates. Composites are mixtures of two or more substances, many of which are polymers with different properties, combine to give us better products. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 1Chemistry in our worldChemistry literally affects us twenty four hours a day. Read more...iWorksheets: 3Vocabulary: 3SoundSound is the energy objects produce when they vibrate. As it does, the Northern and Southern hemispheres are either pointing toward or away from the sun’s rays. There are three different shapes of bacteria: spiral, rod, and spherical shaped. This is called prograde rotation. Read more...iWorksheets: 3Vocabulary: 4ForcesForce is a pull or a push and its strength is measured in units called newtons and represented by the symbol F. Soil is a combination of decomposed rock and organic materials. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 2Technology in our worldEngineers use technology to meet human demands and to provide solutions to our problems. Previous Page 2 of 15 Next Previous Page 2 of 15 Next Photosynthesis: Cycling of Matter and Flow of EnergyPhotosynthesis: Cycling of Matter and Flow of EnergyUse this life science worksheet to help middle school students boost their understanding of photosynthesis and how matter and energy cycle on Earth. The first stage occurs when light is captured by the chlorophyll pigments in the leaves and converted to energy in the chloroplast. Cell phones using networks of microwave generating cell towers have dramatically changed the way we communicate. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 1Elements and the periodic tableElements are the purest form of matter and can not be broken down into any other substance by either a physical or chemical change. As viewed from space, the Earth rotates counter-clockwise. A second factor is that the Earth is tilted at 23.5 degrees on its axis as it rotates around the sun. These dusty clouds are called nebulae. There are protists that are unicellular and multicellular. The formula for its calculation is: work =force x distance. Read more...iWorksheets: 3Vocabulary: 3Protists and FungiWhat is a protist? You can find more information and change your preferences herePage 5 This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. Chemical energy is the energy that gets released when chemical bonds are broken. Bases taste bitter, are slippery to the touch and turn red litmus paper blue. The protist is the most diverse Kingdom of classified organisms on Earth. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 2Energy: Forms and ChangesEnergy can have many forms, including mechanical, thermal, electrical, chemical, nuclear and electromagnetic energy. A food web is made up of many different food chains in an ecosystem. For example, if a machine takes the force coming in and multiplies it three times, the mechanical advantage would be 3. In a solution, finely dissolved particles of a solute are dissolved by the solvent. Velocity has an additional component. Forces can act in combination and produce what is referred to as net force. Read more...iWorksheets: 6Study Guides: 1Vocabulary: 3The Sun-Earth-Moon SystemThe Earth is simultaneously spinning on its axis(rotation) and revolving around the sun. You can find more information and change your preferences herePage 2 This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 4Exploring the Oceans/OceanographyFreeThe oceans are highly comples environments. DNA stands for DeoxyriboNucleic Acid. Newton’s first law is that an object that is at rest will remain at rest and that an object in motion will continue in motion. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 6Cell ProcessesNucleic acids are organic molecules that contain the instructions for all of the cell functions. Because the Earth is a globe, the sun’s rays hit the equator more directly than they do near the poles. An example of a base is NaOH or sodium hydroxide. Solutions are a type of mixture with at least one solute and solvent. There is a point at which the stress is more than the rock can hold and the rock breaks. Planets that spin clockwise are said to have retrograde rotation. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 2Ecosystems, food chains and food websUnderstanding food chains and food webs requires understanding the flow of energy and food sources among living things on Earth. A food chain represents a series of organisms connected by where they obtain their energy. Read more...iWorksheets: 4Study Guides: 1Vocabulary: 5Bacteria and VirusesBacteria are prokaryotes, meaning that their DNA is in the cytoplasm because they do not have a nucleus. You can find more information and change your preferences here You can create printable tests and worksheets from these Grade 7 Ecology questions! Select one or more questions using the checkboxes above each question. The gas is hydrogen and helium. Then click the add selected questions to a test button before moving to another page. The ash and rock that is extruded by explosive volcanoes is called pyroclastic material. Speed is calculated by dividing the distance traveled by the time it took to travel. One example of this is in the area of wireless technology. Photosynthesis is the process that green plants use to capture energy from the Sun and convert it to food. Read more...iWorksheets: 4Study Guides: 1Vocabulary: 8The World of Life ScienceScientific inquiry is a process of designing and conducting scientific investigations including asking a question, completing an investigation, attempting to answer the question, and presenting the results to other. Erosion includes the chemical and physical breakdown of rocks and their transport from their point of origin to another location. It occurs in two stages. Most of the chemical digestion of food we eat gets done in our small intestines with enzymes. DNA (Deoxyribonucleic acid), the genetic material of an organism, and RNA (ribonucleic acid), the important material in producing proteins within the cell. The substance that the sound waves travel through is called the medium. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 1MotionWhen motion occurs, there is speed and velocity. Here these particles start to come together to form planets. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 5EarthquakesThe theory of plate tectonics describes the movement of the plates of the lithosphere relative to each other. Magma comes out through the surface of the crust to form volcanoes. There changing factors determine the zones and habitats and which organisms can live in each. Plants produce oxygen and food in the form of sugar during the process of Photosynthesis. This volcanic mudflow is called a lahar. In a longitudinal wave, the particles of the medium move back and forth, while the energy moves forward. Read more...iWorksheets: 4Study Guides: 1Vocabulary: 4ClimateOne key factor affecting climate is latitude. Thermal energy or heat energy: When a sidewalk warms up from the sun it now has thermal energy. However, they still meet the criteria for being a living organism. : Plants have adapted to living on land by having the ability to obtain water and other nutrients from the soil. They are made from carbon, hydrogen, oxygen, nitrogen, and phosphorus. Of all the types of consumer goods, clearly electronics seems to have benefited most from technological development. There are two types of nucleic acids. Crustal rock can absorb and store energy, but only so much. A carbonate is a charged cluster of Carbon and Oxygen atoms. Plants require sunlight to make food. This movement creates forces that push and pull on the crust. A food web helps us understand how organisms are interrelated within an ecosystem. Three volcanoes categories are cinder cones, shield volcanoes and stratovolcanoes. When the rock breaks, the stored energy is released and this energy travels through the Earth. Then the particles are pushed together, it is called compression. Whenever electricity is used, its energy is being used. Therefore, if two objects have the same speed, but are going in different directions, they will have different velocities. Electrical energy is produced by the movement of charged particles called electrons. When the particles are spread apart, it is called rarefaction. You can find more information and change your preferences herePage 3 This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 1Mixtures, solutions and compoundsMixtures, unlike compounds, are the physical combination of different substances. A conclusion is summing up the information from an investigation by either supporting the hypothesis or not. You can find more information and change your preferences herePage 6 This website uses cookies We and our advertising partners use cookies and other tracking technologies to improve your browsing experience on our website, to show you personalized content and targeted ads, to analyze our website traffic, and to understand where our visitors are coming from. Outside our bodies, chemicals and their reactions help us in many practical ways. Protists are combined into the same Kingdom because they are all eukaryotes and they live in a liquid environment. Rocks can be broken down by physical processes (called mechanical weathering) and chemical processes (called chemical weathering). Gravity is a type of force that pulls objects towards each other and toward the earth. Read more...iWorksheets: 5Study Guides: 1 The climate is predictably warm and humid. Read more...iWorksheets: 3Study Guides: 1Vocabulary: 4Weathering of rocks and soil formationWeathering is a collection of natural processes that, over time, break large rock into smaller and smaller pieces. Read more...iWorksheets: 5Study Guides: 1Vocabulary: 7Cell ReproductionFreeThe process where one cell forms two identical daughter cells is called cell division. Velocity tells you how fast an object is going and where it is going. Blowing wind, running water, flowing ice and and gravity are the forces that erode rock and sculpt the landscape.

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