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8th grade science energy unit study guide

7th Grade Study Guide Science Nuclear Energy This is not a fossil fuel. Biomass Geothermal energy. Comes from heat under the earth's surface. When heat is transferred between objects of different temperatures, what is the end result? Both objects have the same temperature. Why does the sand on a beach get so much warmer than the water on a sunny day? The water has greater specific heat. What happens to water when you heat it? The particles of the water are given kinetic energy 2. The thermal energy in the water increases 3. The temperature of the water rises Management is usually slowest in. Gases This is a heat insulator. Plastic Which substance can heat energy be transmitted by convection? Air Matter is not required for the transmission of thermal energy through. Radiation What happens to hot water when it moves through a home hot water heating system? It transmits thermal energy to the rooms of the house and the water cools and returns to the boiler. In a heating system with warm air, cold air in each room. Enters an intake valve near the roof In a functioning internal combustion engine has the piston. Kinetic energy T or F The purpose of a radiator in a heating system is to produce thermal energy. False T or F Warm air moves through the channels of the heating system due to gravity. False T or F Thermal energy naturally moves from a warmer area to a cooler area. True T or F Thermal energy is always transferred from cooler to warmer objects. False T or F Land and sea breezes are examples of convection currents. True T or F Heat is always transferred from a larger object to a smaller object. False T or F Differences in the specific heat of soil and water affect the climate. True T or F Most of the electricity in the U.S. is generated by burning petroleum. False T or F The use of fossil fuels is a major cause of global warming. True T or F Nuclear energy is a renewable energy resource. False T or F The energy stored in food is chemical energy. True T or F When you plug in a lamp, electromagnetic energy is converted into light. False A heavier object has less gravitational potential energy than a lighter object at the same height. False Compressing a spring gives it potential energy. True can be defined as the ability to do work Energy The process in which energy changes form is called energy. Conversion energy is the total kinetic energy of all atoms in an object. Thermal Energy that travels in waves through matter from a vibrating object is. Healthy energy Natural resources that are limited in supply and cannot be replaced except over millions of years are called. Non-consumable resources mean saving resources by using them more efficiently or not using them at all. Conversation The average kinetic energy of the particles in an object is that of the object. Temperature The thermal energy of an object depends on its temperature and its. Mass A is a device that controls a System. Theroasted substance that transmits heat energy in a cooling system is called a. Coolant Compare and Contrast hot-water and hot-air heating system. Both can heat a house 2. Hot water heats water in a boiler and moves it throughout a house with pipes where a hot-air system uses an oven to heat the air and send it through the house in ducts as it circulates with convection streams compare and contrast wire and convection. Both are ways energy moves 2. In Conduction, the energy can only be brought when the particles are touching. Convection works with the flow of a liquid, warmer less dense rises while cooler denser sinks. Account for the problems caused by the use of fossil fuels for energy. Burning fossil fuels releases pollutants into the atmosphere, some are solids that we can inhale, causing breathing problems. It can cause acid rain and it can cause global warming. Identify at least three forms of energy involved when a musician plays an electric keyboard. Electricity, thermal, chemical (only if batteries are used) and sound. Describe how energy changes on a trampoline. As you bounce up kinetic changes to potential, once you reach peak height and start falling the potential starts to change back to kinetic until you hit the surface which slows then stops you and sends you back up to get potential again. Important issues for unit. EQ 1: How are potential and kinetic energy related?. EQ 2: How are forms of energy both and different?. EQ 3: How does the energy move from one object to another? Essential Vocabulary: Atomic Heat Transfer Radiation Conduction Currents Convection Currents Facilitate Collision Conversion Act for Conservation of Energy Heat Sound Light Motion Mechanical Conversion Act for The Conservation of Energy Kinetic Energy Potential Energy Unit 2 Stations. Group 1 -Myon Reader 'The Mighty World of Max Axiom'. Group 2 Kinex Building- Students will build a car to demonstrate Potential and Kinetic Energy. Group 3.Brain Pop. Group 4- Notes with with Graphic Organizer. Group 5- Review questions from Unit 1 Energy Skate Park Energy Stations. Pic Collage. Quiz. Myon ' The Powerful World of Energy with Max Axiom'. Cross-country puzzle. Webquest Webquest Link: Task 1: Task 3: Task 6.. Thank you for considering fossil energy education in your classroom curriculum. The Department of Energy's Office of Fossil Energy is pleased to present printable study guides and activities that emphasize the importance of coal, natural gas and petroleum to our everyday lives. More importantly, we hope to familiarize students with the science and technology that makes using fossil fuels cleaner. We hope you find our information useful. If you have any comments or suggestions regarding our educational materials, please. Elementary

school.: A classroom activity involving students two experiments there there gain an estimate of their dependence on electricity, and learn how the regulation of the rate of energy consumption makes the energy source last longer. Middle School.: The JASON project, a nonprofit subsidiary of The National Geographic Society, connects students with great explorers and major events to inspire and motivate them to learn science. FE/NETL researchers and engineers participate in this programme. High School.: The U.S. Department of the Interior's Minerals Management Service developed this teacher's guide on the many energy resources found in, above and below the ocean. Contains sections on petroleum, natural gas and methane hydrate. Practical activities include drilling for oil in the ocean, and building a floating oil rig.: The International Society of Petroleum Engineers developed this site to list the types of careers found in the petroleum industry – from geologist to energy economist. *Study tips are a basic outline & are not all inclusive. You should use your notes as your primary source to study from in addition to Warmups, RWD, Q&A, Spreadsheets, and Labs. Semester 1 Unit 1 : Science Knowledge Safety- Placement of safety equipment, what to wear, basic rules Syllabus-missed work and late work policies, how to contact Miss Clum, website, science binder Scientific method-7 steps in order, definitions, how to make scientific method Graph-7 rules, identify and define the independent and dependent variables, interpret data from a graph, make a stack or a line graph, how to choose the type of graph to make, calculate slope including formula Measurement Units in order from K to m, convert units, name of systems science and most of the world's uses, units to measure mass, distance or length, and volume of a fluid, meniscus, name of lab equipment & how to use the Significant Numbers- determine how many in a number & how many to have in your answers Unit 2 Exercise Measuring Units Define Exercise What is a reference point? Speed, Avg. Speed, Speed, Speed, Acceleration, Tilt Formula, units for all Acceleration formula, 3 Properties and examples, Interpret information from and make DataTables & Graphs Acceleration, Speed & Velocity- Problem time and distance formulas Acceleration problems and Speed problems WorksheetGraphing Motion Lab Wu's & HW Unit 3 Forces Define vocabulary for CH. 10 Balanced & Unbalanced Power Equations with Vector Arrow Diagram with All Forces Labeled in The Right Direction Formulas & Units: Acceleration, Speed, Power, Momentum, Mass, WeightFormulas & Units from Previous UnitHow will increase or decrease in mass, acceleration and/or speed affect the amount of power, inertia, speed Speed acceleration due to Converting Gravity from Gram to Kilo Weight vs Mass 3 Laws & Law of Universal Gravity Types of friction and examples for each direction of off and properties related to movement What are the surfaces that cause friction? Newton's 3rd Law applied to Rockets satellites and how Centripetal force is related to their Orbit Review Spreadsheets, Notes, WU's and Labs Unit 4 Forces in Fluids Fluids properties, 2 states of matter, molecule movement in them, specific examples for each Pressure-what is it/how does it happen, formula, units, how it increases & decreases depending on surface area, atmospheric, water How differences in pressure are balanced or balanced & how to see this How the pressure changes with height & depth and why they change this way Power pumps in the heart 3 Principles-Pascals, Archimede's, Bernoulli's, specific examples of each Define Weight Buoyant Force- what direction, factors affecting the scale, float vs. sink, how it is created-Density predict whether an object will float or drop based on its density , Formula, Devices How does a submarine work to move in the water at different depths Flight- curvature of wings and movement of air molecules above and under the wings Final ExamUse all the study tips above for the corresponding HolidaysMake sure you know formulas, units and examplesAll multiple choice questions (about 100) Semester 2Unit 5 Energy & Thermal Energy & Heat Just a reminder that you should review WU's, HW, Labs & Notes What is energy? Formulas and units of energy (KE, GPE) 2 Different types of energy and examples of each (KE, PE) 6 forms of energy and examples for each Diagram of an atomic, subatomic particles and chargesTypes of energy conversion- what it goes from and changed to Main concept from Soaring Straws lab Ex.effect of the amount of elastic potential energy on the amount of gravitational energy, how to calculate GPE 3 types of fossil fuels & how they were formed Original energy source What is the alternative energy? Examples of Fuels and Sources Diagram and Label Parts of an Atom What is Temperature? - How are temperature and thermal energy different?. 3 temperature scales, freezing, boiling, absolute zero- Leader vs. Insulator, example of each- 3 ways to transfer heat with examples- What does a high specific heating capacity mean? Unit 6 Introduction to Matter The three states of principle of matter Molecules vs. Compounds (example) Pure Substance vs. Mixture (example) Types of MixturesChemical Change versus. Physical Change Identify a Chemical or Physical Change(Worksheet) What are Physical Properties?Chemical Properties? Diagram of an atomic, subatomic particles and charges Dancing Spaghetti Lab (physical and chemical changes, identify the new products given the equation of reaction) Unit 7 States of matter The three states of principle of matter and changes in state, movement of the particles in these states Properties and properties of solids, Fluids & Gases Boyle's law and graph Law and Graph code Hot Air Balloon & Ice Cream & Changes of State Lab concepts Colloids, Suspensions definitions & examples, Oobleck LabUnit 8 Elements & Periodic Table Use periodic table to determine properties, properties, subatomic particles, groups/families, periods, and distinguish between metals, non-metals and metalloids with reference to the zig-zag line Key Terms Atomic Parts spreadsheet-find mass, number, e-, protons,neutrons Diagrams an atom and charges on subatomic particles Draw and interpret Bohr diagrams (spreadsheets) Properties and names of groups/families Properties of metals, non-metals, and metalloids Group vs. Period valence e- location, max # in each shell(1-4), max # in the last shell, # which makes an atom stable, and # in groups 1, 2, 13, 14, 15, 16, 17, 18 Periodic Table Video Questions Two liquids on Room temp. Chart of an atomic, subatomic particles and unit 9 chemical bonds, reactions and acids and bases Evidence of a reaction What happens to the bonds? What and where in the equation are The Reactants and Products? Define and identify 4 types of reactions Difference between a chemical versus physical change What are enzymes & catalysts and what do they do? Which law balances equations based on? Know How to Balance Equations Types of Chemical Bonds- Ionic vs. Covalent Which atom/ion will have a positive or negative charge? How can you tell what kind of tape a molecule has? Exothermic vs Endothermic-What are they? What happens to the energy? Factors that affect the speed of a chemical reaction Draw Electron Dot/Lewis Structures for Elements and Molecules (how many valens e- in a group) pH (Acid, Base, Neutral, pH scale) Characteristics/properties of Acids & Bases Carbon can tie in to many things and are found in all living Main element that make up the earth's biomass and animal-CHONPS Ca (bones & teeth & muscle contraction) Unit 10 Astronomy What do the internal planets have in common? What do the outer planets have in common? Why are planets and many moons round? What does the color of a star mean? How many stars make up a galaxy? Which askaps are galaxies? What is the name and shape of our galaxy? Where is our solar system?> What is the light source in the universe? for our solar system? What is the smallest planet? Largest? Order of planets Final exams Use all study tips above for the corresponding Semester If 10 -15% will be at Astronomy Make sure you know formulas, units and examples All multiple choice questions (about 100) 100

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