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Three Branches of Government

There are three departments that make up the United States Government. These departments are often referred to as the three branches of government.

Legislative	Executive	Judicial
		
The Legislative Branch makes the laws. Congress and Senate make up the Legislative Branch.	The Executive Branch enforces the laws. The President and Vice President are part of the Executive Branch.	The Judicial Branch judges the laws. It is made up of nine supreme court justices.

Checks and Balances



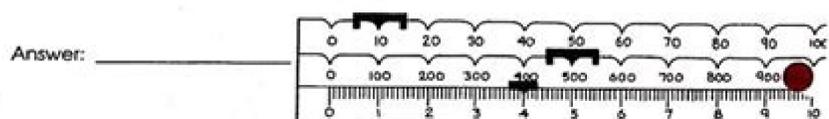
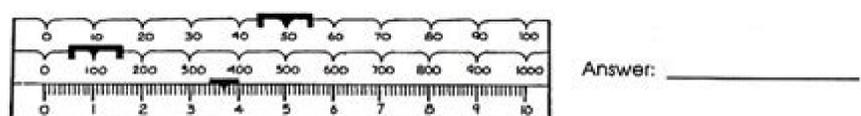
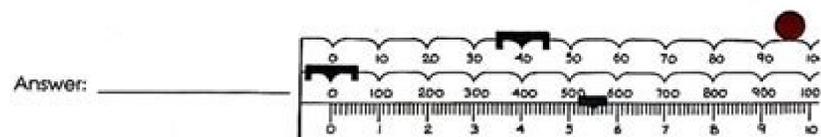
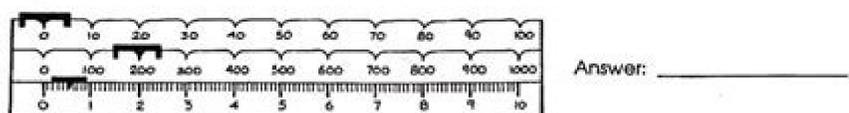
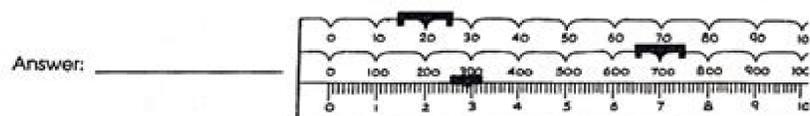
The three branches are designed to check and balance each other. No one branch should have all the power. Each branch is important to the functioning of our government.

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USING THE BALANCE

Name _____

The following balance measure mass in grams. What masses are shown on each of the following balances?





Complete the Fossil and Mountain Chain Evidence activity by coloring fossil and mountain chain data on the continents. It may be best to design and test on separate days so that you can gather the materials that students need to test their designs. Finally, have two groups of partners compare their questions and answers. Opening Various questions on seasons and diagrams. Review seasons study guide #1 Work Session Review stations 1, a. They are not the same. Obtaining, Evaluating, and Communicating Information: Critically read scientific texts adapted for classroom use to determine the central ideas and obtain scientific information to describe patterns in and/or evidence about the natural world(s). Have parents or business partners donate when possible. Remind students to bring in a chocolate bar for the Chocolate rock cycle lab. Only a small amount is fresh water, including water in rivers, lakes, underground water, and in the form of ice. Furthermore, how can we solve this problem and make sure people do get access to water? Complete Chocolate rock cycle activity handout, explain how each rock is formed. Drawing (10-20 min) Intro: Rock Cycle Song Students will sing-a-long to the rock cycle song Exit ticket on notebook: Write the formation processes of various types of Rocks Students will place the 3 rock type names/formation processes on a 3x5 index card. Each will pick up a card and the partner will explain the rock formation process in the notebook, students will write a one paragraph story on how each rock is formed, where it came from and where it can go Students explain what happened to the chocolate and the cookies and how the rock cycle process is similar to what happened during the lab Differentiation Strategies Grouping Scaffolding Help out individually Some students will be given partially filled in graphic organizers Singing Graphic organizer, picture illustrations Pair share Singing rock cycle song Some students will be given samples to use Some students will be partnered with teacher or specified student to help Assessments Minerals written quiz, Oral response during class, Brainpop review quiz, Paper Plate illustration, Singing, Completing organizer Openings or Daily Warm Ups. Probing. Check for understanding. Questioning and discussing student responses on the daily content. Developing and Using Models: Develop a model to describe phenomena Evaluate limitations of a model Crosscutting Concepts: Systems and System Models: Models can be used to represent systems and their interactions—such as inputs, processes and outputs—and energy, matter, and information flows within systems. -Draw out cause and effect relationships and interactions between energy and matter Explain (Day 3-4)

Students discuss lab conclusions Students take notes on convection currents and/or participate in simulations such as Students draw a cross-section of the Earth (including its layers) to draw a model of convection currents in the mantle Students write an explanation of how plates move (Formative Assessment) -Discuss the conclusions from the lab with students. Today, power companies use the heat produced by nuclear fission to produce electricity. Do not study the ocean life. Begin instruction so that students' questions get answered. Assessment Skills Tutor content. USA TEST PREP content (S6E2.c) Relate the tilt of the Earth to the distribution of sunlight throughout the year and to its effect on climate. Rock Cycle Nature Walk Students will go on a walk down to the stream at the back of the school. They will go over the bridge and identify various rocks on the ground. Students will. — Describe the types of rock found near this stream — Explain how the rocks formed — Explain how the rocks got to the stream — Explain where the rocks and materials near and in the stream came from. S7L2. Some students will volunteer to read their story. 2017 8-14 to 8-18 GMS HUTCH & PAYNE Standard(s) Element(s) (S6E5) Students will investigate the scientific view of how the earth's surface is formed. Their accumulation in the atmosphere can only be explained by human activity. (S6E3.a) Explain that a large portion of the Earth's surface is water, consisting of oceans, rivers, lakes, underground water and ice. Opening Water Cycle stages/definitions warm-ups. Various questions on the water cycle Work Session 1. Water Cycle Fly Swatter: Students line up to swat at answers on the water cycle 2. Water Cycle Manila Folder Poster. Students draw, illustrate, and color a water cycle diagram. Work Session World ocean current and climate reading comprehension graphic organizer. Students read about the way currents affect world's climate, compare the world's temperatures based on latitude, and discuss how the climate is affected. Discuss how the ocean becomes salty (erosion). Circulate around the room and ask partners to explain which question revealed the most information and why. - Our water comes out of visible, readily accessible sources. Opening Complete the Water Cycle Graphic organizer from Wednesday. Review, discuss, explain Work Session Computer Lab Students log on to teacher website (www.choicescience.weebly.com) Lesson Plans Paula Hutchison for the week of 3/13 - 3/17) 2017 MON 3-13 Essential Question(s) What are fronts and how do High pressure areas differ from low pressure areas? This will cause the students to further own the general information on the rock cycle. Students answer the quiz at the end of the video.

Assessment Uneven heating lab activity questions for graphic organizer (S6E2.c) Essential Question(s) What causes the different seasons on Earth? Play the mix into a tub for the Rock Cycle Nature Walk #2: Work on the study guide graphic organizer. Independently (10 min) Share with partner (5 min) Review the answers for the rock cycle study guide graphic organizer Make Flash Cards. Create Flash Cards for each type of rock. What are the average temperatures in Wyoming? The practical sources of energy include the fossil fuels, natural gas, petroleum (or oil), and coal. Engage (Day 1) Watch the trailer for Journey to the Center of the Earth Write down observations about what the Earth looks like under the surface and what the center of the Earth looks like in the movie Participate in class discussion about whether we can dig to the center of the Earth. Give each group the three graphs in the Ocean Composition document. Continue with the activity stations. Make sure all students have had an opportunity to complete at least two of the 2 stations if time remaining: Rock Cycle Song Have student review the study guide for test #2 Group students according to their abilities. What is the difference between mechanical (physical) weathering and chemical weathering?Opening: Wonders of the world pictures: Weathering Identification. Students answer and review.Various Weathering and Erosion questions. Explain the difference between weathering and erosion. Explain the difference between mechanical and chemical weathering. Create Weathering T-chart from memory. Work Session: Weathering and Erosion Summative Test. Students who finish early will silently read textbook pages and 288 - 293 about our next topic: Soil formation and conservation. 2. PLC SCIENCE PLANNING, which means, I am in the building, but not in the classroom! THU 2/2 Essential Question(s) What causes water waves and what are the parts of a wave called? The goal is to generate as many questions as possible. Vocabulary Igneous Rock Sedimentary Rock Metamorphic Rock Melting Weathering, Erosion, Deposition, Compaction Cooling, Hardening Heat and Pressure Magma, Lava Foliated Stratified Words used to describe various rocks: Layers, many crystals, no crystals, mixed, sandy, wavy, folded Lesson Plans for May 8-12: THU 10/18 Essential Question(s) LEARNING TARGET 1. Assessment none (S6E3.d) Explain the causes of waves, currents, and tides. Each part of the webquest list interactive website to follow and answer questions on each Crest, Trough, Height, Length Closing Have students act out the part of a wave Differentiation Individual assistance. Scaffolding. Some students will be given partially filled organizer Assessment. Study jams questions (S6E3.d) Explain the causes of waves, currents, and tides. natural gas wood 3. That energy is then emitted back to the atmosphere as heat. Rock Cycle Video #4: Watch part 4 of rock cycle videos. After watching, complete Rock cycle study guide #2 Prior to watching, students read the questions on the study guide and think about the answers. - How are land features above the oceans similar to ocean floor features? - The sea floor has canyons, mountains and mountain ranges, and plains just as the land does. 4. What are the alignments of the Earth, Moon, and Sun during spring and neap tides? This lesson hits briefly on the causes of earthquakes and volcanoes—it's best to follow up this lesson with a more in-depth study of those geologic events. (Earth Science Edition) Where is Most of the Fresh Water? A depletion of ozone allows more UV light to reach the surface, but is not an important factor leading to increased temperature on Earth. Assist some students as needed to complete the graphic organizer # students will receive a study guide with hints Notebook writing task check Check for understanding Oral questions and responses while guiding the students in completing their projects Homework: Take home quiz: rock cycle TUE Standard(s) (S6E5.c) E.Q.(s) 1. Review wave and currents for a quiz in notebook. Students draw a wave, its parts, and describe the parts Students write and answer the following: - What is a wave? What causes waves to form? Investigations into the causes of waves, surface/deep ocean currents, and tides are also completed. Then they follow up this activity by graphing sea surface temperature of the Gulf Stream in the Atlantic and discuss the effects of the Gulf Stream on the west of Europe. When cement is made from ground up limestone, the hardening process releases CO2. What is the difference between intrusive and extrusive igneous rocks Opening Work Session Closing Differentiation THU 10/18 Essential Question(s) LEARNING TARGET 1. Assessment none (S6E3.d) Explain the causes of waves, currents, and tides. Difference between intrusive and extrusive igneous rocks Explain what "Rock Cycle" means. Evidence of Learning By completion of this lesson, students will be able to: - Communicate the composition, location, and subsurface topography of the world's oceans. Explain (Day 2-4) Use texts, online simulations, or teacher lecture material to fill in information about the temperature, thickness, density, composition of each layer on the Earth's Layers Comparison Chart and Earth's Layers Cross Section Diagram -Whole group instruction about the temperature, thickness, density, composition of each layer on the Earth's Layers Comparison Chart and Earth's Layers Cross Section Diagram Or -Student Investigation using Annenberg Interactive: Elaborate (Day 5) Students make an analogy (model) to compare the layers of the Earth to another model (i.e. a hardboiled egg). ESOL English Proficiency Standard (WS4) English learners communicate information, ideas and concepts necessary for academic success in the content area of Science (TSWBAT) Describe/Explain the formation processes of igneous, sedimentary, and metamorphic rocks. Make sure the students include how each type of rock is used. Scientists are exploring the practicality of other sources called renewable energy sources. Opening Water Cycle stages/definitions warm-ups. Various questions on the water cycle. Check H/W Work Session Computer Lab Students log on to teacher website (www.choicescience.weebly.com). Gravity is the force that keeps planets in orbit around the sun and governs the rest of the motion in the solar system. FRI 2/10 Essential Question(s) What causes tides? What are the alignments for a spring/neap tides? Students who have mastered the rock cycle unit will fill-in the graphic organizer on the whiteboard, at the back of the class or create their own cartoon storyboard to tell about the rock cycle (in their notebook) Student Power Point Presentation: Students will come up to present the power point they created on the rock cycle. As each student completes their presentation, they will describe what happens during the rock cycle. Next, discuss and evaluate the questions using a Depth of Knowledge (DoK) Question Rainbow (a poster made of colored paper) making a continuum blue for DoK Level 1, green for DoK Level 2, yellow for DoK Level 3, red for DoK Level 4. Cell parts are interdependent. The only greenhouse gas emitted by human activities is carbon dioxide from burning fossil fuels. Closing Summary writing in notebook: 1. Gasoline is a mixture of liquids, and natural gas is mainly methane and is piped into homes and office buildings where it is used as an energy source for heating, cooking washing, and drying. Consider the question: "Pangea existed 200 million years ago. Sea water's "salt" is made of dissolved minerals from surface runoff (excess water from rain, snow or other sources that melt flow over land). Check / grade the study guide. These include sun, wind, geothermal, water, and biomass. Responses on sticky notes and put upDiscussion on responses (compare to a present or a box with something in it). We could guess by shaking it, drilling into it, base on what is coming out of it....Introduce 1st Earth Layers Rap: Read the lyrics with students to learn the cadence of the songClosing Practice singing the earth layers song.Differentiation Some students will be paired for assistance.Assessment Brainstorming ideas, guessing, pair/share group talk.GPS (S6E5.a) Compare and contrast the Earth's crust, mantle, core, including density, temperature, and composition. Resources Blackboard online: Vocabulary Heliocentric-Copernicus theory that Sun is the center of the universe. BrainPop: Gravity. Explanation of gravity Closing Students will describe and illustrate: High/Low tide and Spring/Neap tide Differentiation Read to, Paired activities. Some student will be given partially filled graphic organizer Assessment Opening, Study jams assessment. Tides: Follow the Tides lesson plan. Do salt water and fresh water move through the same water cycle? Study Jams: Wind and Coriolis Effect Closing Students will explain: Why is the Gulf Coast warm, while the California Coast cold? Materials needed: - Lava lamp (optional) - Modeling Convection Currents Lab (per group): - Large glass beaker - Small glass beaker - Small pieces of paper - Cold water - Hot water (may need to have a hot plate and pan to heat water and/or a thermos to keep it hot) - Aluminum foil - Food coloring - Rubber band - Pencil with sharp point - Computer Lab or devices - Snack Teclones Lab (see teacher notes for approximate amounts): - Several cans of frosting - Several boxes of graham crackers - Several boxes of Fruit Roll-Ups - Plastic knives (1 per student) - Wax Paper (Costco/Sams/Restaurant Supply Stores have big packs of pre-cut plastic wrap) - Plastic cups filled with water (one per group of students) - Student Handouts - Modeling Convection Currents Lab - Snack Teclones Instructions - Snack Teclones Handout Sixth Grade Dynamic Earth Unit Title: Fossils Provide Evidence of a Changing Environment Estimated Time: 4-5 class periods Core Ideas (GSE Standards): S6E5g, homes and industries (S6E3.d) Essential Question(s) What cause the different seasons on Earth? Students determine what layer of the Earth the lamp (especially the light itself in the lamp) represents. 3. What is the alignment of the earth and the moon for high tides and low tides? 4. What is gravity? TUE 1/10 Essential Question(s) How is the water distributed on Earth? GPS (S6E5.h) Describe soil as consisting of weathered rock and decomposed organic material MON Essential Question(s) 1. Develop a hypothesis: How could this tree have existed in present-day Wyoming? What will Earth look like 200 million years from now? Make a model (map) to hypothesize changes over time to the current positions of Earth's continents Pose initial question to students Provide paper and colored pencils (optional) for students to construct maps Evaluate Submit CER from the "explain" phase and the model from the "elaborate" phrase Use CER rubric to evaluate students' CER arguments. Opening Work Session Closing Differentiation Assessment Rock Cycle Diagram Fill-In Told Tennis ball - Toss: a tennis ball will be used to choose students to answer blank fill-ins Rock Cycle Diagram progress check. Have student put their rock cycle diagram and rubric on their table. Scientific theories of the solar system and universe have changed. 2. Poster: Students will be given a colored copy paper. Students will illustrate high/low tide alignments. Students will illustrate Spring/Neap Tide alignments. Students will describe what happens during the rock cycle, and why they occur. Opening: As students enter, they will watch a video: magma flowing out of a volcano. Opening Unpack Standard (S6E3.b) Relate various atmospheric conditions to the stages of the water cycle. (Earth Science Edition) Groundwater (Earth Science Edition) Where did the Water Come From? Visible light from the sun passes through the atmosphere and is absorbed by the Earth's surface, heating it up. Rock Cycle Video (culminating): Students will view how rocks are formed and destroyed. Students will take notes and answer questions on a video graphic organizer (paused during discussion and answering). This video will reinforce what the students have learned. Discussion will follow to clear up any misconceptions. Opening Return/Review/Correct Ocean Floor quiz Unpack Standard (S6E3.e) Explain that a large portion of the Earth's surface is water, consisting of oceans, rivers, lakes, underground water and ice. Poles? Authentic Scenario Palm frond fossils are found in present-day Wyoming. Edusmart software: Climate and Weather. Students will operate the edusmart software to introduce and learn about climate and weather. Students complete edusmart assessment on weather. 3. I have, Who has (rock cycle vocab/formation processes) Students will complete at least two of the three stations. Cause and Effect: -Cause and effect relationships may be used to predict phenomena in natural or designed systems Stability and Change: -Explanations of stability and change in natural or designed systems can be constructed by examining the changes over time and forces at different scales, including the atomic scale. -How are asteroids and comets different? 2. How many high tides are in one day (24 hours)? - What causes winds to form? Galaxy-Large groups of stars, dust, and gas. - What are the basic parts of an animal cell and a planet cell? - Waves can be caused by wind or underwater disturbances of the seafloor such as earthquakes or volcanic eruptions. - While currents flow like a river, there are not actually rivers, they are just ocean water that is moving due to wind or temperature or salinity differences. - Currently the nonrenewable resources supply the majority of our energy needs because we have designed ways to transform their energy on the planet. Disadvantage to these methods is the environmental change caused in the process. Describe the position of the solar system in the Milky Way galaxy and the universe. Opening Warm-Up: Parts of a wave, high/low tides, and the alignments for spring/neap tides. - Energy moves through waves. Closing Water cycle rap. Water cycle song Differentiation Some students will be given partially filled graphic organizer. Pair. Read to. What questions would you ask of both Ebony and Min-jun before you decide who you think is correct? Differentiation. Some students: read to, scaffold, Paired activities Assessment. Open current activity questions (S6E3.d) Explain the causes of waves, currents, and tides. The questions will be on the power point with pictures. Station activities FRI Standard(s) (S6E5.c) E.Q.(s) 1. Then students share their explanations in a group, discuss, and write a group explanation. As an extension, to show the tide, 50-minute lag in tides, students complete the Timing the Tides activity, using a model of the earth and moon, rotating the moon around the Earth and looking at a clock to see how the time changes each day. - While water is technically a renewable resource, the rate at which water is being used and polluted is not sustainable. Closing Compare the land (sand) to the ocean(water) and explain: How does the difference in heat affect winds and climate? What is happening to the pressure...? While the mix cools, students will complete the graphic organizer: After about 10 min, the chocolate mix will be examined and the results discussed. (The molten mix has cooled and hardened into an igneous rock) Student Use of Technology: iPad Differentiation (Content/Product/Process): # symbol represent differentiation for students and in handouts # will have hints added to the questions. Evaluate students' use of evidence to support hypotheses in their models Title: Earth's Layers Estimated Time: 5 class periods Core Ideas (GSE Standards): S6E5a, Students Fly Swatter game: Students line up and swat at answers to various questions on seasons. (S6E3.b) Relate various atmospheric conditions to the stages of the water cycle THU 1/25 Essential Question(s) What causes tides? What are the parts of a wave called? Essential Questions: - Is the ocean the same everywhere? Students will understand the effects of the relative positions of the earth, moon and sun. Opening Warm-up re-teach water cycle/distribution handout. Complete and clear up any questions. Work Session Unpack the standards (S6E3.d): Waves, Currents, Tides, What are the formation processes of igneous, sedimentary, and metamorphic rocks? Draw illustrations and explain. Answer assessment. Assessment Study Jams assessment organizer Differentiation Some students will be given partially filled graphic organizer. Pair. 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(The molten mix has cooled and hardened into an igneous rock) Student Use of Technology: iPad chat as resource for research Differentiation (Content/Product/Process): Grouping Scaffolding Help out individually ELT Focus: Daily Journal Writing: A sentence or a paragraph explaining or answering the essential question or a question on the current topic. Relate cell structures (cell membrane, nucleus, cytoplasm, and mitochondria) to basic cell functions. Discuss, describe, explain how the rocks and all the materials surrounding the stream is all part of the rock cycle. Students will master the difference between rotation and revolution. According to a 2010 study in the Chinese Science Bulletin, the recent global warming period of the 20th century is the result of a natural 21-year temperature oscillation, and will give way to a "new cool period in the 2030s." According to an Aug. (Earth Science Edition) Why is the Ocean Salty? Half sheet with 5 questions on the rock cycle. Have students pass around the document and pose questions about one graph. Return/Review Test Discuss how we are doing, did we increase test scores compared to the quiz? It, 20 minutes on Each of the two stations 3. Review study guide(s) with power point. Clear up any

misconceptions. Make sure students master the difference between revolution with tilt causing seasons compared to spinning/rotation which causes day/night. Wave, Currents, Tides vocabulary graphic organizer. Complete the wave, currents, tides vocabulary graphic organizer using materials from last two days. Students will explain each rock type, formation processes, physical characteristics, and any additional information they found. -Instruct students to write down questions that arise as they watch this video. (S6E5.c) Classify rocks by their formation process. For example: "Why does the temperature decrease? (S6E5.d) Describe the processes that change rocks and the surface of the earth Essential Question(s) What are the formation processes of igneous, sedimentary, and metamorphic rocks? How could you tell a planet from a star if you look at the same constellations? Asking questions to identify and communicate the composition of the world's oceans: Pass ArounDs: Put students into groups of three or four. Write/illustrate what is happening to the magma/lava in notebook. Discuss the type of rock formed by magma/lava coming out to the earth's surface and cooling. Work SessionTest: Soil Horizons, Soil Conservation, and weatheringStudents who finish work on the following: Internet search: Earth layers preview. Research internet, find names and compositions of earth layers. Graphic Organizer provided.Closing Students will complete the test and work internet research on the layers of the earth.Differentiation Some questions on the test will be read to some students.Assessment Soil unit testGPS (S6E5.h) Describe soil as consisting of weathered rock and decomposed organic materialGPS (S6E5.i) Describe method for conserving natural resources such as soil THU Essential Question(s) If we cannot go into the Earth, how can we learn what is inside the earth?What are the basic Earth layer names? Then tell students to design an investigation to model the water cycle. Description of Key Content Teacher Background Information Misconceptions Proper Conceptions - Tides are caused by Earth's rotation - Spring tides are a seasonal phenomenon. Engage in a class discussion about group's hypotheses as to how and why these fossils exist in Wyoming. Work Session Computer Lab. Soar Cards for each completed assessment (at least 85% each) 1. Skills Tutor - Earth and Space 2. USA TEST prep - Weather - Severe weather - Seasons - Other listed assessments Teacher will check on completion and award points based on how many were completed and what score was achieved Closing Students will finish the sentence: "The reason for the seasons - Tilt of the Earth." Differentiation Peer help. Pair working. Students are to determine the various conditions which causes evaporation, condensation, precipitation Work Session 1. Study Jams: Water cycle. For students who finish work on the following: - Skills Tutor: Rock and minerals and quiz - Virtual Learning interactive website: rock cycle Rock Cycle Quiz 1a Students complete a rock cycle quiz: mostly igneous rocks. Note that Lystronius could not swim well. Opening Warm-up re-teach water cycle/distribution handout. Complete and clear up any questions Work Session 1. Finish Water Cycle Diagram Project: Turn in (include water distribution as shown by teacher) 2. Complete crossword puzzle: 1 student 1 review 3. Complete Vocabulary boxes; semester 1 review vocabulary 4. Students who complete all of the above will write a "water cycle" story about a water droplet going through the water cycle. Include ocean, rivers, plants, animals, people, water company, toilets, ETC. How does land and water absorb and lose heat differently? 2. Copy the Rock Cycle illustration on pages 92-93 3. Define the

water cycle. Students who finish early will silently read textbook pages and 288 - 293 about our next topic: Soil formation and conservation. 2. PLC SCIENCE PLANNING, which means, I am in the building, but not in the classroom! THU 2/2 Essential Question(s) What causes water waves and what are the parts of a wave called? The goal is to generate as many questions as possible. Vocabulary Igneous Rock Sedimentary Rock Metamorphic Rock Melting Weathering, Erosion, Deposition, Compaction Cooling, Hardening Heat and Pressure Magma, Lava Foliated Stratified Words used to describe various rocks: Layers, many crystals, no crystals, mixed, sandy, wavy, folded Lesson Plans for May 8-12: THU 10/18 Essential Question(s) LEARNING TARGET 1. Assessment none (S6E3.d) Explain the causes of waves, currents, and tides. 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This lesson hits briefly on the causes of earthquakes and volcanoes—it's best to follow up this lesson with a more in-depth study of those geologic events. (Earth Science Edition) Where is Most of the Fresh Water? A depletion of ozone allows more UV light to reach the surface, but is not an important factor leading to increased temperature on Earth. Assist some students as needed to complete the graphic organizer # students will receive a study guide with hints Notebook writing task check Check for understanding Oral questions and responses while guiding the students in completing their projects Homework: Take home quiz: rock cycle TUE Standard(s) (S6E5.c) E.Q.(s) 1. Review wave and currents for a quiz in notebook. Students draw a wave, its parts, and describe the parts Students write and answer the following: - What is a wave? What causes waves to form? Investigations into the causes of waves, surface/deep ocean currents, and tides are also completed. 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Explain (Day 2-4) Use texts, online simulations, or teacher lecture material to fill in information about the temperature, thickness, density, composition of each layer on the Earth's Layers Comparison Chart and Earth's Layers Cross Section Diagram -Whole group instruction about the temperature, thickness, density, composition of each layer on the Earth's Layers Comparison Chart and Earth's Layers Cross Section Diagram Or -Student Investigation using Annenberg Interactive: Elaborate (Day 5) Students make an analogy (model) to compare the layers of the Earth to another model (i.e. a hardboiled egg). ESOL English Proficiency Standard (WS4) English learners communicate information, ideas and concepts necessary for academic success in the content area of Science (TSWBAT) Describe/Explain the formation processes of igneous, sedimentary, and metamorphic rocks. Make sure the students include how each type of rock is used. Scientists are exploring the practicality of other sources called renewable energy sources. Opening Water Cycle stages/definitions warm-ups. Various questions on the water cycle. Check H/W Work Session Computer Lab Students log on to teacher website (www.choicescience.weebly.com). Gravity is the force that keeps planets in orbit around the sun and governs the rest of the motion in the solar system. FRI 2/10 Essential Question(s) What causes tides? What are the alignments for a spring/neap tides? Students who have mastered the rock cycle unit will fill-in the graphic organizer on the whiteboard, at the back of the class or create their own cartoon storyboard to tell about the rock cycle (in their notebook) Student Power Point Presentation: Students will come up to present the power point they created on the rock cycle. As each student completes their presentation, they will describe what happens during the rock cycle. Next, discuss and evaluate the questions using a Depth of Knowledge (DoK) Question Rainbow (a poster made of colored paper) making a continuum blue for DoK Level 1, green for DoK Level 2, yellow for DoK Level 3, red for DoK Level 4. Cell parts are interdependent. The only greenhouse gas emitted by human activities is carbon dioxide from burning fossil fuels. Closing Summary writing in notebook: 1. Gasoline is a mixture of liquids, and natural gas is mainly methane and is piped into homes and office buildings where it is used as an energy source for heating, cooking washing, and drying. Consider the question: "Pangea existed 200 million years ago. Sea water's "salt" is made of dissolved minerals from surface runoff (excess water from rain, snow or other sources that melt flow over land). Check / grade the study guide. These include sun, wind, geothermal, water, and biomass. Responses on sticky notes and put upDiscussion on responses (compare to a present or a box with something in it). We could guess by shaking it, drilling into it, base on what is coming out of it....Introduce 1st Earth Layers Rap: Read the lyrics with students to learn the cadence of the songClosing Practice singing the earth layers song.Differentiation Some students will be paired for assistance.Assessment Brainstorming ideas, guessing, pair/share group talk.GPS (S6E5.a) Compare and contrast the Earth's crust, mantle, core, including density, temperature, and composition. Resources Blackboard online: Vocabulary Heliocentric-Copernicus theory that Sun is the center of the universe. BrainPop: Gravity. Explanation of gravity Closing Students will describe and illustrate: High/Low tide and Spring/Neap tide Differentiation Read to, Paired activities. Some student will be given partially filled graphic organizer Assessment Opening, Study jams assessment. Tides: Follow the Tides lesson plan. Do salt water and fresh water move through the same water cycle? Study Jams: Wind and Coriolis Effect Closing Students will explain: Why is the Gulf Coast warm, while the California Coast cold? Materials needed: - Lava lamp (optional) - Modeling Convection Currents Lab (per group): - Large glass beaker - Small glass beaker - Small pieces of paper - Cold water - Hot water (may need to have a hot plate and pan to heat water and/or a thermos to keep it hot) - Aluminum foil - Food coloring - Rubber band - Pencil with sharp point - Computer Lab or devices - Snack Teclones Lab (see teacher notes for approximate amounts): - Several cans of frosting - Several boxes of graham crackers - Several boxes of Fruit Roll-Ups - Plastic knives (1 per student) - Wax Paper (Costco/Sams/Restaurant Supply Stores have big packs of pre-cut plastic wrap) - Plastic cups filled with water (one per group of students) - Student Handouts - Modeling Convection Currents Lab - Snack Teclones Instructions - Snack Teclones Handout Sixth Grade Dynamic Earth Unit Title: Fossils Provide Evidence of a Changing Environment Estimated Time: 4-5 class periods Core Ideas (GSE Standards): S6E5g, homes and industries (S6E3.d) Essential Question(s) What cause the different seasons on Earth? Students determine what layer of the Earth the lamp (especially the light itself in the lamp) represents. 3. What is the alignment of the earth and the moon for high tides and low tides? 4. What is gravity? TUE 1/10 Essential Question(s) How is the water distributed on Earth? GPS (S6E5.h) Describe soil as consisting of weathered rock and decomposed organic material MON Essential Question(s) 1. Develop a hypothesis: How could this tree have existed in present-day Wyoming? What will Earth look like 200 million years from now? Make a model (map) to hypothesize changes over time to the current positions of Earth's continents Pose initial question to students Provide paper and colored pencils (optional) for students to construct maps Evaluate Submit CER from the "explain" phase and the model from the "elaborate" phrase Use CER rubric to evaluate students' CER arguments. Opening Work Session Closing Differentiation Assessment Rock Cycle Diagram Fill-In Told Tennis ball - Toss: a tennis ball will be used to choose students to answer blank fill-ins Rock Cycle Diagram progress check. Have student put their rock cycle diagram and rubric on their table. Scientific theories of the solar system and universe have changed. 2. Poster: Students will be given a colored copy paper. Students will illustrate high/low tide alignments. Students will illustrate Spring/Neap Tide alignments. Students will describe what happens during the rock cycle, and why they occur. Opening: As students enter, they will watch a video: magma flowing out of a volcano. Opening Unpack Standard (S6E3.b) Relate various atmospheric conditions to the stages of the water cycle. (Earth Science Edition) Groundwater (Earth Science Edition) Where did the Water Come From? Visible light from the sun passes through the atmosphere and is absorbed by the Earth's surface, heating it up. Rock Cycle Video (culminating): Students will view how rocks are formed and destroyed. Students will take notes and answer questions on a video graphic organizer (paused during discussion and answering). This video will reinforce what the students have learned. Discussion will follow to clear up any misconceptions. Opening Return/Review/Correct Ocean Floor quiz Unpack Standard (S6E3.e) Explain that a large portion of the Earth's surface is water, consisting of oceans, rivers, lakes, underground water and ice. Poles? Authentic Scenario Palm frond fossils are found in present-day Wyoming. Edusmart software: Climate and Weather. Students will operate the edusmart software to introduce and learn about climate and weather. Students complete edusmart assessment on weather. 3. I have, Who has (rock cycle vocab/formation processes) Students will complete at least two of the three stations. Cause and Effect: -Cause and effect relationships may be used to predict phenomena in natural or designed systems Stability and Change: -Explanations of stability and change in natural or designed systems can be constructed by examining the changes over time and forces at different scales, including the atomic scale. -How are asteroids and comets different? 2. How many high tides are in one day (24 hours)? - What causes winds to form? Galaxy-Large groups of stars, dust, and gas. - What are the basic parts of an animal cell and a planet cell? - Waves can be caused by wind or underwater disturbances of the seafloor such as earthquakes or volcanic eruptions. - While currents flow like a river, there are not actually rivers, they are just ocean water that is moving due to wind or temperature or salinity differences. - Currently the nonrenewable resources supply the majority of our energy needs because we have designed ways to transform their energy on the planet. Disadvantage to these methods is the environmental change caused in the process. Describe the position of the solar system in the Milky Way galaxy and the universe. Opening Warm-Up: Parts of a wave, high/low tides, and the alignments for spring/neap tides. - Energy moves through waves. Closing Water cycle rap. Water cycle song Differentiation Some students will be given partially filled graphic organizer. Pair. Read to. What questions would you ask of both Ebony and Min-jun before you decide who you think is correct? Differentiation. Some students: read to, scaffold, Paired activities Assessment. Open current activity questions (S6E3.d) Explain the causes of waves, currents, and tides. The questions will be on the power point with pictures. Station activities FRI Standard(s) (S6E5.c) E.Q.(s) 1. Then students share their explanations in a group, discuss, and write a group explanation. As an extension, to show the tide, 50-minute lag in tides, students complete the Timing the Tides activity, using a model of the earth and moon, rotating the moon around the Earth and looking at a clock to see how the time changes each day. - While water is technically a renewable resource, the rate at which water is being used and polluted is not sustainable. Closing Compare the land (sand) to the ocean(water) and explain: How does the difference in heat affect winds and climate? What is happening to the pressure...? While the mix cools, students will complete the graphic organizer: After about 10 min, the chocolate mix will be examined and the results discussed. (The molten mix has cooled and hardened into an igneous rock) Student Use of Technology: iPad chat as resource for research Differentiation (Content/Product/Process): Grouping Scaffolding Help out individually ELT Focus: Daily Journal Writing: A sentence or a paragraph explaining or answering the essential question or a question on the current topic. Relate cell structures (cell membrane, nucleus, cytoplasm, and mitochondria) to basic cell functions. Discuss, describe, explain how the rocks and all the materials surrounding the stream is all part of the rock cycle. Students will master the difference between rotation and revolution. According to a 2010 study in the Chinese Science Bulletin, the recent global warming period of the 20th century is the result of a natural 21-year temperature oscillation, and will give way to a "new cool period in the 2030s." According to an Aug. (Earth Science Edition) Why is the Ocean Salty? Half sheet with 5 questions on the rock cycle. Have students pass around the document and pose questions about one graph. Return/Review Test Discuss how we are doing, did we increase test scores compared to the quiz? It, 20 minutes on Each of the two stations 3. Review study guide(s) with power point. Clear up any

misconceptions. Make sure students master the difference between revolution with tilt causing seasons compared to spinning/rotation which causes day/night. Wave, Currents, Tides vocabulary graphic organizer. Complete the wave, currents, tides vocabulary graphic organizer using materials from last two days. Students will explain each rock type, formation processes, physical characteristics, and any additional information they found. -Instruct students to write down questions that arise as they watch this video. (S6E5.c) Classify rocks by their formation process. For example: "Why does the temperature decrease? (S6E5.d) Describe the processes that change rocks and the surface of the earth Essential Question(s) What are the formation processes of igneous, sedimentary, and metamorphic rocks? How could you tell a planet from a star if you look at the same constellations? Asking questions to identify and communicate the composition of the world's oceans: Pass ArounDs: Put students into groups of three or four. Write/illustrate what is happening to the magma/lava in notebook. Discuss the type of rock formed by magma/lava coming out to the earth's surface and cooling. Work SessionTest: Soil Horizons, Soil Conservation, and weatheringStudents who finish work on the following: Internet search: Earth layers preview. Research internet, find names and compositions of earth layers. Graphic Organizer provided.Closing Students will complete the test and work internet research on the layers of the earth.Differentiation Some questions on the test will be read to some students.Assessment Soil unit testGPS (S6E5.h) Describe soil as consisting of weathered rock and decomposed organic materialGPS (S6E5.i) Describe method for conserving natural resources such as soil THU Essential Question(s) If we cannot go into the Earth, how can we learn what is inside the earth?What are the basic Earth layer names? Then tell students to design an investigation to model the water cycle. Description of Key Content Teacher Background Information Misconceptions Proper Conceptions - Tides are caused by Earth's rotation - Spring tides are a seasonal phenomenon. Engage in a class discussion about group's hypotheses as to how and why these fossils exist in Wyoming. Work Session Computer Lab. Soar Cards for each completed assessment (at least 85% each) 1. Skills Tutor - Earth and Space 2. USA TEST prep - Weather - Severe weather - Seasons - Other listed assessments Teacher will check on completion and award points based on how many were completed and what score was achieved Closing Students will finish the sentence: "The reason for the seasons - Tilt of the Earth." Differentiation Peer help. Pair working. Students are to determine the various conditions which causes evaporation, condensation, precipitation Work Session 1. Study Jams: Water cycle. For students who finish work on the following: - Skills Tutor: Rock and minerals and quiz - Virtual Learning interactive website: rock cycle Rock Cycle Quiz 1a Students complete a rock cycle quiz: mostly igneous rocks. Note that Lystronius could not swim well. Opening Warm-up re-teach water cycle/distribution handout. Complete and clear up any questions Work Session 1. Finish Water Cycle Diagram Project: Turn in (include water distribution as shown by teacher) 2. Complete crossword puzzle: 1 student 1 review 3. Complete Vocabulary boxes; semester 1 review vocabulary 4. Students who complete all of the above will write a "water cycle" story about a water droplet going through the water cycle. Include ocean, rivers, plants, animals, people, water company, toilets, ETC. How does land and water absorb and lose heat differently? 2. Copy the Rock Cycle illustration on pages 92-93 3. Define the

water cycle. Students who finish early will silently read textbook pages and 288 - 293 about our next topic: Soil formation and conservation. 2. PLC SCIENCE PLANNING, which means, I am in the building, but not in the classroom! THU 2/2 Essential Question(s) What causes water waves and what are the parts of a wave called? The goal is to generate as many questions as possible. Vocabulary Igneous Rock Sedimentary Rock Metamorphic Rock Melting Weathering, Erosion, Deposition, Compaction Cooling, Hardening Heat and Pressure Magma, Lava Foliated Stratified Words used to describe various rocks: Layers, many crystals, no crystals, mixed, sandy, wavy, folded Lesson Plans for May 8-12: THU 10/18 Essential Question(s) LEARNING TARGET 1. Assessment none (S6E3.d) Explain the causes of waves, currents, and tides. Each part of the webquest list interactive website to follow and answer questions on each Crest, Trough, Height, Length Closing Have students act out the part of a wave Differentiation Individual assistance. Scaffolding. Some students will be given partially filled organizer Assessment. Study jams questions (S6E3.d) Explain the causes of waves, currents, and tides. natural gas wood 3. That energy is then emitted back to the atmosphere as heat. Rock Cycle Video #4: Watch part 4 of rock cycle videos. After watching, complete Rock cycle study guide #2 Prior to watching, students read the questions on the study guide and think about the answers. - How are land features above the oceans similar to ocean floor features? - The sea floor has canyons, mountains and mountain ranges, and plains just as the land does. 4. What are the alignments of the Earth, Moon, and Sun during spring and neap tides? This lesson hits briefly on the causes of earthquakes and volcanoes—it's best to follow up this lesson with a more in-depth study of those geologic events. (Earth Science Edition) Where is Most of the Fresh Water? A depletion of ozone allows more UV light to reach the surface, but is not an important factor leading to increased temperature on Earth. Assist some students as needed to complete the graphic organizer # students will receive a study guide with hints Notebook writing task check Check for understanding Oral questions and responses while guiding the students in completing their projects Homework: Take home quiz: rock cycle TUE Standard(s) (S6E5.c) E.Q.(s) 1. Review wave and currents for a quiz in notebook. Students draw a wave, its parts, and describe the parts Students write and answer the following: - What is a wave? What causes waves to form? Investigations into the causes of waves, surface/deep ocean currents, and tides are also completed. 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We could guess by shaking it, drilling into it, base on what is coming out of it....Introduce 1st Earth Layers Rap: Read the lyrics with students to learn the cadence of the songClosing Practice singing the earth layers song.Differentiation Some students will be paired for assistance.Assessment Brainstorming ideas, guessing, pair/share group talk.GPS (S6E5.a) Compare and contrast the Earth's crust, mantle, core, including density, temperature, and composition. Resources Blackboard online: Vocabulary Heliocentric-Copernicus theory that Sun is the center of the universe. BrainPop: Gravity. Explanation of gravity Closing Students will describe and illustrate: High/Low tide and Spring/Neap tide Differentiation Read to, Paired activities. Some student will be given partially filled graphic organizer Assessment Opening, Study jams assessment. Tides: Follow the Tides lesson plan. Do salt water and fresh water move through the same water cycle? 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the water cycle 2. Water Cycle Manila Folder Poster. Students draw, illustrate, and color a water cycle diagram. BrainPop: Water cycle, View, Assessment Ocean currents activity questions (S6E3.d) Explain the causes of waves, currents, and tides. Hydroelectric (Rising Water) When water is collected behind dams on large rivers, it provides a source of energy for the production of electricity. Relate the Nature of Science to the progression of basic historical scientific models (geocentric, heliocentric) as they describe our solar system, and the Big Bang as it describes the formation of the universe. Elaborate 1. Materials needed: Classroom computer, projector, and speakers for showing videos Computer lab or devices for student research Student Handouts: Earth's Layers Comparison Chart Earth's Layers Cross Section Diagram Earth's Layers Venn Diagram Lesson Plans for HUTCH for the week of 11/06-17/2017 Essential Question(s) 1. Students describe what they think is in the soil and how it was formed (explain where soil started from. Students will form a hypothesis on what is in the soil (about 6 feet deep)2. -What is the Big Bang Theory? c. Hutchison week of October 9-13, 2017 . Season Study guide #2. Assessment Study jams questions, brainpop assessment (S6E3.b) Relate various atmospheric conditions to the stages of the water cycle THU 1/12 Essential Question(s) How does water change through the water cycle? Products from the remaining portions include synthetic rubber, detergents, fertilizers, textiles, paints, and pharmaceuticals. The renewable energy resources are important in long range energy planning because they will not be depleted. Land and Water uneven heating observation lab. Students identify rocks based on physical characteristic and descriptions. When this standard is taught with fidelity, students plan and carry out an investigation about how the sun's energy drives the water cycle. Introduce Tides: Same Standard (What causes wave, currents, and tides) Tides video. What cause tides? Study Jams: Tides Watch the animation, write the definitions to the vocabulary words, and take notes Study Jams mini-assessment. Teacher will call certain people to make sure those who are unsure to check for understanding. Cytoplasm- The fluid that fills the entire cell Mitochondria- Energy production Cell wall- Plants only: Rigid outer layer. Protection Chloroplast- Plants only: Photosynthesis; convert light energy to plant energy. Essential Question(s) 1. There are two ways to mine coal; underground mining and strip mining. The future supply of most non-renewable resources is uncertain, but "running out" is less of an issue than how much it will cost to extract the resource as the supply diminishes.) Properly planned conservation strategies increase comfort levels and quality of life while using fewer resources and restoring the environment. Opening Do you know what ocean currents are? Where do they originate and where do they go? Check that all students completed and turn in their rock cycle diagrams Review rock cycle study guide #1 Some students will be given a vocabulary definitions guide to assist in completing flash cards. The enormous power of falling water is capable of turning giant turbines. Standards SCI.6.S6E2.c Thu Essential Question(s) What cause the different seasons on Earth? Medium-Grained c. Some ideas students might develop include heating water in beakers on hot plates, putting water in a Ziploc bag and taping it to the window, etc). Students who finish early can help (only those who need assistance) or complete the remaining work listed in the folder. (1st semester vocabulary and diagrams, crossword puzzle) Closing Water Cycle Rap and Song Differentiation Student pairing for assistance. Students scoring less than 75% on quiz will be grouped for reviewing individual items and retaught. Some students will be given extra time to complete the diagram and the power point Teacher will assist with some students (scaffold) searching the internet and formatting power point presentation Rock Cycle Quiz 1a THU Standard(s) (S6E5.c) E.Q.(s) 1. LESSON PLANS for Monday, March 27- March 31, 2017 Mon Essential Question(s) What cause the different seasons on Earth? Rock Cycle Earth Cutout Diagram Note taking. Opening Warm-Up: Parts of a wave, high/low tides, and spring/neap tides. 1. Follow interactive water cycle website #3. Complete the graphic organizer for this activity. How do I describe the soil horizons?Opening Soil/Weathering/Horizons questions. Review and reinforce. Students must justify why they have chosen this other object as their model and identify the model's strengths and limitations. Here are a few: Ice cores from Greenland and Antarctica tell us that carbon dioxide and other greenhouse gas concentrations were relatively stable for thousands of years, but began to rise around 200 years ago, about the time that humans began to engage in very large-scale agriculture and industry. Greenhouse gases in the atmosphere can absorb this energy, preventing it from escaping back into space. Fresh water: Discuss/Explain what is the difference between fresh water and salt water. How does soil form and what is in the soil? 2. This means it contributes little environmental pollutants when hummed. Assessment Projects, Performance tasks, Research Standards S6E1. Some greenhouse gases, such as industrial halocarbons, are only made by humans. Energy can be possessed by an object in two different ways, as kinetic energy and potential energy. -Show video WITHOUT SOUND!! - record student questions on the board, keep track of categories that relate to temperature, density, thickness and composition to show similar questions in those areas -record answers to question on the board as students answer them -debrief what the class has learned. (See this video tutorial for making a paper slides video: iii. 5. Which has the greatest tidal difference? The least difference? 2. Currents: Some paper dot will be added to the pan to see the movements of the surface water (rinks placed in the pan to simulate continents. Have students communicate their answer to the two friends of who they think is correct by writing a letter to them. Describe the composition of each soil layer. 2. Compare and contrast the planets in terms of Size relative to the earth Surface and atmospheric features Relative distance from the sun Ability to support life e. The ocean floor has plains, mountains, and valleys, which are often larger than those on dry land. Research the following: 1. Closing questionsGPS (S6E5.h) Describe soil as consisting of weathered rock and decomposed organic material WED 10/18 Essential Question(s) LEARNING TARGET 1. Ocean Tides Ocean tides are very powerful forces. Roughly half of the earth's forests have disappeared since 1950. Work Session: Inquiry: compare, contrast various rock samples Students will group rock samples and discuss how they were grouped. Students/Teacher will discuss and explain the common mistakes. Students will explain on how to avoid the same mistakes. The goal is to develop fluency, flexibility, originality, and elaboration in question creation. Why do you get pushed forward at the surf-line then? Comet-small body of ice, rock, and cosmic dust that follows an elliptical orbit around the sun and that gives off gas and dust in the form of a tail as it passes close to the sun Meteor-a bright streak of light that results when a meteoroid burns up in Earth's atmosphere. Assessment Water Cycle and Distribution Test (S6E3.b) Relate various atmospheric conditions to the stages of the water cycle. Pass out the Water Sources graphic organizer with those two questions posed at the top. Some cities produce electricity by burning garbage in especially designed power plants. To make it useful, it is refined. Students will explain what could happen during each part of the lab. The earth is such a large and well-balanced system that it soon heals any damage that humans cause. Provide scaffolding/Remind students of the C-R framework as they write their arguments. Many of the oceans' deepest points are trenches, deep canyons that are formed at plate boundaries. Assessment Wave, Currents Quiz (S6E3.d) Explain the causes of waves, currents, and tides. WED 2/1 Essential Question(s) What causes water waves and what are the parts of a wave called? Instructional Strategies S6E3a When this standard is taught with fidelity, students ask questions about where water is located on Earth. "Climate change" is a broader term that refers to weather trends observed over relatively long periods of time (many decades or longer). Refining separates the gasoline portion which is used in transportation. Media Center Orientation with Mrs. Rock Cycle Study Guide #1. Review. Work with students to place the questions along the continuum. Some students will be given key words to organize their thoughts for the rock cycle story Teacher will provide scaffolding as needed Rock cycle story check Various questions during opening, reviewing test #1, and questioning throughout the lesson THU Standard(s) (S6E5.c) E.Q.(s) 1. Parker OR. Biomass This is garbage! As bacteria decomposes organic waste such as manure, septic tank sludge, food scraps, pond-bottom muck, etc., methane is produced. Ask questions to identify and communicate, using graphs and maps, the composition, location, subsurface topography of the world's oceans. These turbines drive the generators, which produce electricity. Underneath, the organizer should include a section entitled "Questions I need answered to solve this water crisis problem" and another section entitled "Things I have learned about where water is located, why is it scarce in some parts of world, and how to conserve water" After students do research on their own, have a class discussion of their findings. Work Session Tides Webquest: Show students how to use the interactive websites the difference between fresh water and salt water. How does soil form and what is in the soil? 2. This means it contributes little environmental pollutants when hummed. Assessment Projects, Performance tasks, Research Standards S6E1. Some greenhouse gases, such as industrial halocarbons, are only made by humans. Energy can be possessed by the splitting of the uranium atom. Instructional Strategies When this standard is taught with fidelity, students ask questions about three different aspects of the ocean. Although the planet has warmed 1.4 °F over the 20th century, it is within the +/- 5°F range of the past 3,000 years. Essential Question(s). What's in our soil and How does our soil form? Opening: Unpack Standard S6E5.h1. Hydroelectric power plants do not cause pollution, but there are fewer and fewer places to build dams. Solar system- The Sun and the planets orbiting the Sun Universe-All the seen and unseen material in space. GPS (S6E5.h) Describe soil as consisting of weathered rock and decomposed organic material GPS (S6E5.i) Describe method for conserving natural resources such as soil WED Essential Question(s) 2. Those who deny climate change point to some of the following evidence: Earth's climate has always warmed and cooled due to things like volcanic eruptions and fluctuations in the sun's activity, and the 20th century rise in global temperature is within the bounds of natural temperature fluctuations over the past 3,000 years. (Earth Science Edition) Does the Ocean Influence our Climate or Weather? Today windmills can be connected to electric generators to turn the wind's motion energy into electrical energy, and wind over 8 miles per hour can be used to generate electricity .It is a renewable, but unpredictable, energy source. Opening Warm-Up activity: Draw a wave and name the 4 basic parts How do currents affect land weather/climate? Engage (Day 1) Students make predictions about what will happen to the lava lamp as the bottom of it heats up near the lamp. Description of Key Content Teacher Background Information Misconceptions Proper Conceptions Earth's oceans are separate and not connected Oceans are deepest in the middle. Opening Return/Review/Correct water cycle, water distribution quiz Work Session Water Cycle / Water Distribution — Manila Folder Poster Students use rubric and complete Water cycle/distribution poster: Students must charmbau/astro demos/tides/neap sp.html Computer lab: (choiscience.weebly.com) Log on to website and go to drop-down menu to tides. Engage Look the following picture: This 6-foot long, 52-million-year-old palm frond fossil was found near Fossil Butte National Monument (Wyoming) and suggests a subtropical climate. Nuclear Fission This is use of seasons, especially the EQUINOXES and SOLSTICES. Pictures of various megaliths around the world marked the beginning of each season. (Stonehenge (about the same time Egypt great pyramids were built) These sites mark the equinoxes, solstices, solar eclipses, and lunar eclipses. Differentiation Pair assistance. In this lesson, students graph high tide levels in a line graph and moon phases along the top of the graph. Write in science notebook the answers to the questions. Rotation: Spin/turn causes day/night (sun rise/set), moon rise/set. Students will be given a small cup. Bottom will be cut out. Students will look through the cup and spin their body and look at the sun(hanging in the classroom). As the students turn, they will see that it looks like the sun is moving. Student will realize that they are spinning (earth) which make it look like the sun is rising/setting. This will be repeated with a moon in the middle of the room. Waves are only caused by wind. Last 10 minutes of class will be used to go over the crossword puzzle Closing Introduce waves: Have students demonstrate what they know about waves, currents, tides Differentiation Pair assistance. Scaffolding. Some students will be given assistance to complete the project Assessment Project, crossword puzzle. What is the difference between intrusive and extrusive igneous rocks Opening Work Session Closing Differentiation Assessment Formation Processes: Students write the formation processes of each type of rock Rock and Learn Video: Watch the video on rock cycle and answer the interactive question from the video. The actual usable geothermal sites are few, but is considered a renewable energy source. Earth's oceans are all connected and part of one global ocean system. Assessment Vocabulary Review and Diagrams during access testing (S6E3.b) Relate various atmospheric conditions to the stages of the water cycle. Pass out the Water Sources graphic organizer with those two questions posed at the top. Some cities produce electricity by burning garbage in especially designed power plants. To make it useful, it is refined. Students will explain what could happen during each part of mixed with cookies, shaped, and squeezed to demonstrate how each rock is formed. — 10 slides (questions, with animated answer). The water, which is a solvent, falling on land, collects in rivers and lakes, soil, and porous layers of rock, and dissolves salts. Power Point Presentation Students will explain the various rock formation processes while presenting their power point. Models are limited in that they only represent certain aspects of the system under study. This methane is the same as natural gas from the ground. Students write an explanation of what is happening. What factors influence weathering and erosion? How many low tides? Work Session 1. Make written corrections to the questions missed on the 1st 20 questions on the semester 2 test. Share their questions with the class Research one or two of their questions on a classroom computer or device and share with the class -Tell students they are going to watch another video about the scientific understanding of the layers of the Earth. Check and review 1. Work on creating an illustration of Spring Tide, Neap Tide, high tide and low tide Closing Students will make cutouts of the Earth, Moon, and Sun to use for tides demonstrations. Perhaps underwater windmills or floating generating stations could utilize this potential energy source to produce electricity. In addition it is the heat energy remaining within the earth from gravitational formation of the earth. The sun is a medium-sized star located near the edge of a disk-shaped galaxy of stars (Milky Way), part of which can be seen as a glowing band of light that spans the sky on a very clear night. 94 text Brainpop on Rock Cycle: Students complete review quiz on the smartboard On a paper plate, Students will draw, color, and illustrate the rock cycle. For each formation process, students will explain each rock formation process (students will write a short story) Chocolate and Cookies Rock Cycle Lab. Geothermal Geothermal energy refers to the energy deep within the earth. Fusion releases far greater energy than splitting the atom (fission, see below). Potential energy is stored energy. Teacher will assist students to make accurate measurements, Opening Unpack standard (S6E5.a) Compare and contrast the Earth's crust, mantle, core, including density, temperature, and composition. While on the nature walk, discuss (in detail) with some students how various rocks and materials got to the stream. How does the amount of saltwater differ from the amount of freshwater on Earth? Opening Review and refresh memory on what cause wind patterns and move on to waves and currents Warm-up - wave parts. Causes of waves and currents. Climate affected by currents. Many strategies for conserving resources save money as they protect the environment. Standards S6E1. Essential Questions -How does the current model of the solar system differ from past models? Burning is the major global source of carbon dioxide in the atmosphere. Engage 1. Season Graphic Organizer: Power point. Students label and explain the difference between rotation and revolution. In the Arctic and Southern Oceans, the formation of sea ice results in a layer of highly saline water. Pair high/low performers to complete the graphic organizer # will be given extra time to complete the graphic organizer ELT Focus: Closing: Rock Cycle Song: Students will sing-a-long to the Rock Cycle Song. 2. What causes tides? -Place the chocolate into a sandwich bag. The goal is to ask questions that will uncover more information about what is displayed in the graphs. Homework Check (Frayer Model) Students will describe what is happening to the magma and lava. Provide students with a population density map Evaluate Submit written explanations from the "Explain" and "Elaborate" phases Evaluate student explanations and their ability to use data/evidence to back up their assertions. Students will explore current scientific views of the universe and how those views evolved. ESOL Learning (WS4) English learners communicate information, ideas and concepts necessary for academic success in the content area of Science Objective(s) (TSWBAT) Describe/Explain the formation processes of igneous, sedimentary, and metamorphic rocks. What causes currents to form? Then, begin your instruction on the salinity of ocean water and layers of the ocean. (S6E3.d) Explain the causes of waves, currents, and TIDES. How are climates along coasts affected by currents?

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