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Weathering & Erosion
1. The process of breaking down rocks and minerals into smaller pieces is called weathering.
2. Weathering can be caused by physical or chemical processes.
3. Physical weathering involves the breaking of rocks into smaller pieces without changing their chemical composition.
4. Chemical weathering involves the breaking of rocks into smaller pieces by changing their chemical composition.
5. Erosion is the process of moving weathered rock and soil from one place to another.
6. Erosion can be caused by wind, water, or ice.
7. Wind erosion occurs when wind picks up and carries away loose soil and sand.
8. Water erosion occurs when water flows over the land, picking up and carrying away soil and rock.
9. Ice erosion occurs when ice moves over the land, picking up and carrying away soil and rock.
10. Weathering and erosion are important processes that shape the Earth's surface.

Grade Six Planning Guide		
Grade Six lessons are multi day and need additional time for particular lessons. This guide is intended to provide approximate days/sessions needed for each lesson.		
Lesson	*Time	Concept
*Pre-assessment	1 day	
6.1 Mechanical and Chemical Weathering	2-3 days	Chemical and mechanical weathering break down Earth materials.
* Formative Assessment #1	1 day	
6.2 Wind Erosion	1 day	Wind erodes Earth materials to another location.
6.3 Glacial Erosion	1 day	Ice scrapes Earth materials and moves it to another location.
6.4 Get Eroded	2-3 days	Water is the primary source of weathering and erosion in California.
6.5 Local Landslide: La Conchita	2 days	Landslides and slumps are examples of water moving sediments.
* Formative Assessment #2	1 day	
6.6 Let's Settle It	2 days	Rivers deposit sediment as the river slows down. Most sediments are deposited on river curves and the mouth of rivers (oceans).
6.7 Beaches on the Move	2 days	Beaches are dynamic systems where sand is supplied by rivers and moved by waves.
6.8 a Hot Springs Trail Hike	3 days	Hot Springs Trail Hike offers evidence of weathering and erosion along the hillside and fossil evidence in sandstone.
6.8 b Rocky Park Trail Hike	3 days	Rocky Nook Hike shows evidence of debris flow and movement of sediments in Mission Creek.
6.8 c Arroyo Beach Hike	3 days	Arroyo Beach Hike shows evidence of where the creek empties into the ocean and weathering and erosion caused by the ocean.
* Post Assessment	1 day	

Grade 6 Earth Science: Weathering and Erosion Introduction and Conceptual Flow Narrative
SCIENCE MATTERS

Name: _____ Date: _____

Weathering, Erosion, and Deposition

Think about what you have seen and learned about erosion to complete the chart below.

	Weathering	Erosion	Deposition
1. The front of a giant glacier in the middle of a hillside. As the front goes forward, the ground behind it cracks.	☐	☐	☐
2. A hillside that has been eroded by a large rock and is now a large hole.	☐	☐	☐
3. The dropping of sediment to a new location.	☐	☐	☐
4. Mud and sand are blowing in the air during a windstorm.	☐	☐	☐
5. A small hill in the middle of a large field and a small pond.	☐	☐	☐
6. How to turn the sand on an eroded beach into a rock.	☐	☐	☐
7. Moving sand around in a trap to form a sand dune.	☐	☐	☐
8. The moving of weathered sediment.	☐	☐	☐
9. The moving down of a hillside of rock.	☐	☐	☐

Name: _____ Date: _____

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7. Moving sand around in a trap to form a sand dune.	☐	☐	☐
8. The moving of weathered sediment.	☐	☐	☐
9. The moving down of a hillside of rock.	☐	☐	☐

Name: _____

Equivalent Fractions

$$\frac{3}{4} = \frac{1}{2}$$

$$\frac{3}{4} = \frac{6}{8} = \frac{2}{3} = \frac{6}{9}$$

$$\frac{1}{4} = \frac{2}{8} = \frac{2}{5} = \frac{4}{10}$$

If this happens during cold months, the water may freeze and expand in the crack. What is weathering? When you go for walks or hikes, point out any weathering and/or erosion you find. Have you taught your children about how the earth changes by the elements? Weathering, Soil, Soil Conservation, Ice-Ages, and Glaciers Unit on TpT Weathering, Soil Science, Soil Conservation, Ice Ages, Glaciers Unit This unit includes all of the lessons For as long as the Earth has existed, weathering has helped shape the landscape. This helps with maximizing face-to-face time for actual practical implementation tips. To understand what weathering and erosion are, you can read this link and then come back to see how we applied our knowledge. An ever expanding bank of resources focused on weathering, erosion and deposition. If there is not an agent on the card for the students to highlight, have them write it Page 2 Fun easy to use word search worksheet great for sub plans, emergencies, entry tasks, warm up exercises, homework, vocabulary review. Topic of word search: Basic earth science Words included: CLEAVAGE, COLOR, CYCLE, EROSION, FRACTURE, HARDNESS, IGNEOUS, LUSTER, MAGMA, METALLIC, METAMORPHIC, MOHS, PRESSURE, PROPERTIES, ROCK, SEDIMENTARY, STREAK, and WEATHERING Like this product? This will save you ink, but the images might end up too small to really learn to distinguish weathering and erosion. Students will learn the difference between weathering and erosion. You will also can print out your free printable set to practice. What causes weathering? This is can create amazing landscapes, such as rocks that look like mushrooms. Sometimes living things can cause weathering. Many times, road crews have to patch up potholes caused by weathering from ice. Wind can also cause weathering. Rainwater can easily enter cracks in rocks or sidewalks. The last activity is to take out the two cards (12 pictures total) that have 2 arrows. Let your children practice this often so they can learn these concepts effectively. Find information about it here! Don't forget to check out our awesome hub for all kinds of erosion, weathering and deposition printables and activities! Free Printable Weathering and Erosion Worksheets In this post, you will get these activities to include in your lesson plans. At the end of the lesson, they will be able to answer the question: What is the difference between weathering and erosion? Students will sort cards on Weathering, Erosion, and Deposition. But do we know what each one is and what they look like? Back to Earth and Space In this post, you will learn the difference between weathering and erosion. We had such a wonderful lesson on weathering and erosion while on the road because we saw so much of it, especially at Arches National Park in Moab, Utah. You will also have the opportunity to print out your free printable set to practice what you have learned about weathering vs erosion. Once you purchase the coaching session HERE, I will contact you to set up a time that works for both of us. 5 A second follow-up email/contact 1-2 weeks after the video coaching call to see how client is progressing and to see if another video call needs to be scheduled. Interested in great educational printables for your kids? The third activity is to compare both cards. What is Erosion? As the plant grows, the roots increase the size of the crack little by little. It is composed of rocks and sediments and many other elements that, with the help of water, air, ice and other things, can be broken down into smaller pieces of rock. Our post: Erosion vs Weathering ~ Awesome Science STEM Activities will be perfect for you! Join our awesome FB community! Sale! \$75.00 \$50.00 Do you need homeschool or Montessori at home coaching? Put some of these books to good use to research some of the terms if you desire to expand your lesson: chemical weathering, physical weathering, biological weathering, the weathering process, different types of weathering, geological processes, how weathering occurs, mechanical weathering, etc. This means that water, air or both move the rocks or parts of the rocks. Looking for more great EARTH Science activities, games, lessons, and worksheets. Working as a wedge, the ice splits the rock. Get your printable set now! Enter your name and email below. Notice the differences and similarities. We hope you enjoy it and learn a lot! We had so much fun during the lesson that I completely forgot to take pictures to show you! Ha! I did include the sample cards so you see what we did. Most of the images in your free printable set were taken by me during our trip. What is the difference between weathering and erosion? Just something to think about. Then, cut the labels that say "erosion" and "weathering." Now you are ready to begin your lesson! Want the entire set of printables for an amazing price? 1 A 30-minute video (or phone) call via Zoom for a 100% personalized "in-person" coaching It will be recorded and the link will be sent via email within 24 hours for further review. Can they tell the difference by looking at the two cards side by side? We have a bundle that covers the difference between erosion and deposition, some weathering and erosion worksheets and so much more! What is the Difference between Weathering and Erosion? 3 Any prior recommendations from my online shop (ebooks, etc.) are included 4 A follow-up email within 24 hours of the video call, detailing what was discussed, steps to take, any additional recommendations from my online shop (again, also included in the package). The effects of air, ice and water on rock are defined as weathering and erosion. We customize a package that will help YOU the most, but this is our most popular package: Take advantage of my 15 years of experience in the Montessori philosophy and 10 years of homeschooling. Cloze Reading Sheets Weathering, Erosion, Deposition Worksheets Scenario Match Match to show whether the scenarios are weathering, erosion or deposition. How do we recognize each one of them? Want some awesome ideas for weathering and erosion experiments? This Summer, we went on a road trip to the beautiful states of Colorado and Utah. Note: you can print the cards on one page each or you can change the layout to print 2 cards per page. This resource includes: Weathering, Erosion, and Deposition - Sorting Activity Weathering, Erosion, and Deposition - Sorting Activity - Answer Key Teachers Note: This product helps students distinguish between Weathering, Erosion, and Deposition. Definition Match Match the terms weathering, erosion and deposition to their correct definition. What is erosion? These cards say "Erosion or Weathering?" at the top. You will see rocks, gravel or even boulders move downward because gravity is the reigning force on this planet. Plant roots can wedge their way in between small cracks in rocks. Weathering is the process where rocks change structure with gaps, gashes or arches formed in the rocks. Also included are hundreds of PowerPoint slides, the unit bundled homework, unit notes, and much more from my Weathering, Soil Science, Soil Conservation, Ice Ages, and Glaciers Unit that I offer on TpT. The file will be right there. Weathering wears away rocks and soil. Water is often the main cause of weathering, either as rain or ice. See if they can recognize any in the real world. These questions and more are very important to answer. Use the labels that you printed and place an arrow next to each arrow to show which arrow is pointing to the erosion and which is pointing to the weathering. Look here! In this activity, students analyze the effects of weathering, erosion, and deposition in the environment. Begin your Earth Science lesson by introducing your children to the definition of erosion and weathering. Many times, you will see both weathering and erosion near each other on rock formations. Over long periods of time, wind can wear away rock and carry tiny pieces of the rock to new places. Made simple, weathering is a change in the chemistry in a rock, by water or air over time. Erosion, on the other hand, is also called mass wasting. What is Weathering? Some elements like water and ice can dissolve rock overtime and air does its erosion and weathering magic by picking up and carrying away particles of soil and rock. Weather Spinner Weather Spinner Track the weather with a homemade weather spinner! Help your little weather watcher color in the blanks on the board with fog, snow, wind, rain, sun and more. Basically, your free printable set will be printed with a color printer and then laminate the cards. They are some free printable weathering and erosion worksheets PDF for you to print and do with your kids. Click here to view our EARTH Science catalog Page 3 This Review Game and template concludes my 600+ Slide Ice Ages, Glaciers, and Glacial Landforms Post on TpT. Your free printables will be the originals without the watermark. Then, show your children the cards that state "This is what erosion looks like" and "This is what weathering looks like." The arrows are very helpful to show what exactly we are talking about. It won't have the "SAMPLE" watermark on it. Remember that discussing these things with them is imperative to learn their thought process and guide them in the right direction. Earth Facts and Fun Book for Kids Erosion and Weathering Cracking Up: A Story About Erosion Weathering and Erosion: Wearing Down Rocks A Look at Erosion and Weathering & Printable Weathering and Erosion Activities Weathering and Erosion for Kids I hope you will enjoy this lesson as much as we did! Your free printable is here. Eventually, pieces of the rocks break off and get carried away by wind or water. 2 An email prior to coaching call detailing what questions, concerns, issues need to be addressed. What does erosion mean? The earth surface is very unique.

Expatica is the international community's online home away from home. A must-read for English-speaking expatriates and internationals across Europe, Expatica provides a tailored local news service and essential information on living, working, and moving to your country of choice. With in-depth features, Expatica brings the international community closer together. Password requirements: 6 to 30 characters long; ASCII characters only (characters found on a standard US keyboard); must contain at least 4 different symbols;

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