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Soil erosion worksheet

Study and verify that soil erosion is influenced by soil makeup using plant roots, rocks and soil slope as experimental factors. Context Secondary school pupils should be able to explain how soil is formed by the degradation of various organic and inorganic materials, sand sediments and smaller particles (sometimes containing the remains of organisms). In grades 3 through 5, students learn that waves, wind, water and ice shape and shape the ground by weakening rock and soil in some areas and depositing them in other areas, sometimes in seasonal layers. This lesson focuses briefly on soil erosion caused by water escape. Students are now ready to learn how topsoil is formed over hundreds of years, and this lesson focuses on how to guickly wash it off if it is not anchored correctly. (Science literacy benchmarks, p. 73.) Soil erosion is a natural process in all countries. The factors of soil erosion are water and wind, each of which causes a significant amount of soil loss each year. Soil erosion and degradation worldwide are so severe that they threaten our agricultural base. Soil erosion can be a slow process that continues relatively unnoticed, or it can occur at an alarming rate, causing severe topsoil loss. The loss of soil from arable land may be reflected in a reduction in farming potential, a reduction in surface water quality and a reduction in damaged sewerage systems. These factors control the rate and size of soil erosion along with water: precipitation intensity and runoff, soil erodibility, slope and length, and vegetation. The factors contributing to erosion can be summarised as follows: Natural factors heavy rainfall on weak soil: raindleads loosen soil particles and water transports them down drought-impoverished hill vegetation: raindleps hit the soil freely, causing erosion during rain; winds blow away fine particles during drought on steep slopes: gravity pulls harder; water flows faster; the soil creeps, slips or collapses downhill with sudden climate change rains: erosion increases unexpectedly quickly as showers worsen from drought: water dries up and the soil becomes a play ball of the wind; soil biota dies; sudden rain causes enormous damage, changing winds: previously protected areas exposed Man-made factors change land (deforestation): land loses its shelter, then soil bioetana, pore and moisture-intensive cultivation: aura, excessive fertilizer and irrigation damage the land, often permanently in residential construction: the soil is bared; massive groundwork for landscaping; the soil is loose on the road construction site: roads are cut off; Massive leaving the scars behind; insufficient attention is paid to the flow of rainwater and roadside maintenance Motivation To start this lesson, students are allowed to use their Soil Erosion student e-eset Industry, homes damaged on CBS News, to read this article about the impact of mudslide on the community. Once students have had time to read the article, they discuss real-life stories about mudslide photos. Once students have had time to look at these pictures, there will be a class discussion about what they saw and read. Ask these types of questions: What could happen in your mind if you were in a house that started creaking and falling apart? You know what to do? What could be an option for you and your family and what would be the consequences? Next, students will use their eset again to go to LANDSLIDE Events on the USGS website. Students should use this site to find recent landslide activity. They should use their Landslide happen? When did that happen? Why did it happen? Could something have been done to prevent this? Follow this action by discussing with these guestions: Predict how many landslides you think you'll find that it happened in the last two weeks. Where do you predict landslides will be? Have you heard of flooding in the last few days? In the U.S.? Internationally? Development Tell students that in this part of the lesson they will further study erosion by participating in practical activities. Before they begin this activity, write the central question of this lesson in a prominent place: What can be used on the slope to slow down or so that the soil does not deteriorate? Can it be stopped? To what extent can erosion be slowed down or stopped? Before starting practical action, students should use their esheet visit in a time that took one inch highland, according to this website? Now students are using their eset to go for soil erosion and WEPP technology to read about the different types of erosion caused by water runoff. Students should use their Erosion by Water student sheet to record descriptions of each type of erosion. They should also be ready to discuss the shoot in class. Show students a pile of dirt (about a gallon) with a large piece of plastic (or do this outside with a pile of dirt and a hose with a shower nozzle). Place small plastic figures such as plastic people, small houses, model trees, etc., in different places around a pile of dirt. Spray the mound. Measure the amount of catchment time. Drain the water and measure only the amount of run-off material. Start a conversation about what water does to the mound. Ask: Oh see examples of different types of erosion so people can live on a mountainside. Part II: Use of plants to slow erosion In this part of the lesson, students are divided into groups. Each group creates a slope garden that they feel slows erosion on the slope garden. Save the sheets for final discussion. Plant your garden in foil according to measured proportions according to the garden plan. Grow your garden with the same amount of water for each garden with the same amount of set up, two weeks should be abundant, test their garden to prevent erosion. To take the erosion test, students should place their garden on the block so that the other end of the tray is raised by 3-4 inches. They should then place the opposite end in the catch container (use aluminium foil or other material that causes dirt and water to drain.) Students should sprinkle the gardens with equal amounts of water and collect the runoff in the tray at the bottom. The amount of water depends on how much and how long they decide to pour. Several water cups should produce enough runoff to test, but they can add if necessary. Now students should measure the amount of soil/plant runoff in each garden. They must save this amount on hillside garden's student ark. Then they should record this amount in their matriculation examination. Refresh everyone's memory of the central question of this lesson by writing it in a prominent place: What can be used on the slope to slow down or so that the soil does not crumble? Can it be stopped? To what extent can erosion be slowed down or stopped? Discuss the results of each group and get students to write these down in the garden plan tables. Use these questions to spark a conversation: Which group had the least runoff? Which group had the most? How did your garden plans differ? What could be the reason for this breakup? Do you see examples of the types of erosion you've studied? Describe. How would you plant your garden differently next time to more effectively limit the amount of soil lost? What does this experiment have to do with the real world and the use of vegetation and rocks to reduce the catchment area? Do you see examples of this in or around your school district? Assessment Soil erosion can be caused by many factors. This experiment only dealt with water, vegetation and the slope of the earth. Placing shreds, trees and stones effectively soil erosion can be controlled. To evaluate students must write at least four parts of the plan in numbers, and then write a summary of how precipitation affects each area. Extensions in science netlinks lesson, How sedimentary rocks form, students underground to see what life is like under the soil. The Soil Education page of the USDA's Natural Resources Protection Service provides resources for teachers and different class levels. Send us feedback on this lesson > Not ready to buy a subscription? Download the free sample version Download sample Erosion is the process by which the soil surface, such as soil or rocks, wears off and is transported to another location with water or wind. Erosion is a natural process, but human activity can greatly accelerate it. See the fact sheet below for more information about erosion, or alternatively, download our 24-page Erosion spreadsheet package for use in your classroom or home environment. Key Facts & amp; Information WHAT CAUSES EROSION? Erosion begins with the weather. It is when the soil decomposes into smaller pieces and they come loose on the surface of the earth. Mobile materials, wind and water transport these smaller pieces of land to another location, causing erosion. When a particle of dust gets into our eyes, the ability of the wind to move the sand to another far away place is obvious. However, the most effective instrument of erosion is water, such as rains and streams, washes away the Highlands, causing the soil to infertility. Rivers can cause a significant amount of erosion over time. The glacier flowing down the slope is a powerful erosion agent. It helps change the shape of the earth. It erods rocks and sediment, moves it to another location are some of the human functions that can cause erosion. WEATHERING is the decomposition of soil into small pieces and EROSION occurs if these small pieces of soil and rock move from one place to another. DEPOSITION is the process by which sediment accumulates in a new location. Land and water form canyons, hills, lakes and rivers slowly and evenly through erosion. These are a billion years in the bar. Weather, erosion and fallout are forces working together to grind the earth's surface and create these forms of land and water. Gravity cannot be underestimated in the formation of the earth's surface. The substances of erosion do not move alone, but through gravity. Rain falls on the ground, and rain-induced mud moves from the highest to the lowest point of the mountain or EFFECTS OF EROSION Soil erosion has a significant impact on the agricultural industry. When the toping was washed away from the area, it lost the most nutrient-rich layer and lowered the quality of the soil. Poor soil quality can cause a limited yield, which means that the farmer must use fertilizers and pesticides. The use of chemicals in agriculture can cause water pollution. When contaminated soil is washed away, it can reach rivers and streams and contaminate drinking water. Due to erosion, sediment accumulating on the slope can prevent water flow in rivers, streams and sewerage canons, leading to flooding. HOW TO CONTROL EROSION? Soil is one of the most important powers of the agricultural operation, producing the food we eat, Losing it through erosion can be controlled in many ways. Here are five of them: Contour Kyntö contour ploughing is made to slow down the flow of water and soil that it carries. Since erosion usually occurs on a slope, farmers follow the contours or undersides of the land instead of planting crops up and down the slope. Crop rotation This is used to maintain good soil quality and prevent the destruction of plants. It means planting crops in a different place every year. Terrace farming This is planted on terraces or stairs built on a mountainside. Wide flat rows are built to act as a ridge to help slow down the water and the soil it is carrying. Mulch Cropping This is the use of straw, compost, pine needles and sometimes ornamental stones as soil. It spreads to the surface of the soil to reduce the impact of raindrops hitting the soil and cover it from the wind. Natural vegetation This is done by allowing trees, shreds and other plants to grow naturally. The roots of these plants and trees keep the soil together and make it more stable. It reduces soil movement throughout the country. It is the simplest and most effective way to avoid erosion. Erosion books This is a fantastic package that includes everything you need to know about erosion tables that are perfect for teaching students about erosion, which is the process by which the surface of the earth, such as soil or rocks, wears off and is transported to another location with water or wind. Erosion Erosion Erosion Erosion Catalysts Erosion Management Erosion Support Why? Oh, why? About Erosion Sparing vs. Erosion Effects Erosion Q & A Portion Erosionfects Dear Disaster, From Erosion Link/cite this page fyou refer to any content on this page on your own website, use the code on this page Source. < a href= amp;gt; Erosion Facts & amp; Spreadsheets: < /a> - KidsKonnect, September 23, 2019Link appears as Erosion Facts & amp; Spreadsheets: - KidsKonnect, September 23, 2019 Use with any curriculum. You can use these spreadsheets are specially designed for use with any international curriculum. You can use these spreadsheets are specially designed for use with any international curriculum. You can use these spreadsheets are specially designed for use with any curriculum. You can use these spreadsheets are specially designed for use with any curriculum. You can use these spreadsheets are specially designed for use with any curriculum. levels and curriculum standards. Standards.

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