Loccon	Dlan
Lesson	Plan

Name____Tiffany Holt_____

Learning Segment Focus Erosion Lesson 2 of 3

Course & topic addressed _Earth Science/Weathering___Date_12/01/2020__ Grade_4th__

Student Outcomes

Specific learning objectives for	Students will be able to compare and contrast weathering and erosion along with list the process that
this lesson.	causes the weathering and erosions, and to identify the various effects of weathering and erosion.
Justify how learning tasks are	This task will allow the assessment of spelling, properly following instructions (implementing
appropriate using examples of	listening skills), and properly using their collaboration skills. This will also allow the assessment of
students' prior academic	the retained information.
learning.	
Justify how learning tasks are	The lesson plan will be one or more of the following: personal and community. Students will learn
appropriate using examples of	how their community was formed. The students will have personal experiences that they will be
students' personal, cultural,	able to share with the class. They will understand, after the lesson, how their favorite creek, pond,
linguistic, or community	tree, or spot was made.
assets.	

State Academic Content Standards

List the state academic content	4-ESS2-1. Make observations and/or measurements or provide evidence of the effects of
standards with which this lesson is	weathering or the rate of erosion by water, ice, wind, or vegetation.
aligned. Include abbreviation, number &	
text of the standard(s).	

Key Vocabulary

What vocabulary terms/content specific	Weather, erosion, abrasion, absorption, condensation, lakes, rivers, rivers, creeks,
terminology must be addressed for	evaporation, soil, gravel, decompose, decomposer, deposition, oxidation, infiltration,
students to master the content?	mass movement, land, surface, continental divide, transpiration, acid rain

Academic Language Support

What are the Academic Language Function(s) (the content	The academic language used will be that of the vocabulary: weather,
and language focus of the learning task represented by the	erosion, abrasion, absorption, condensation, lakes, rivers, rivers,
active verbs within the learning objectives/outcomes) and	creeks, evaporation, soil, gravel, decompose, decomposer,
explain how they are utilized in the lesson plan?	deposition, oxidation, infiltration, mass movement, land, surface,
What planned Academic Language Supports will you use to	continental divide, transpiration, acid rain. The vocabulary words
assist students in their understanding of key academic	will be utilized by performing activities and experiments during
language to express and develop their content learning and to	class. The students will list the words while performing the activities.
provide varying supports for students at different levels of	They will demonstrate their listening, speaking, and writing skills.
Academic Language development? How do these supports	
address all three Academic Language Demands	
(vocabulary, syntax, and discourse)?	

Materials

Materials needed by teacher for this lesson. (such as books, writing materials, computers, models, colored paper, etc.)	Projector or smart board, internet, computer, paper, pen or pencil, cookies, water, toothpick, q-tip, water, safety goggles, paper plates, cups, timer
Materials needed by students for this lesson. (computers, journals, textbook, etc.)	Paper, pen or pencil, cookies, water, toothpick, q-tip, water, safety goggles, paper plates, cups

Amount of Time	Teaching & Learning Activities (This should be a BULLETED	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during
	LIST)	this part of the lesson. (This should be VERY DETAILED)
5 minutes	Introduction: We will review what	I will be standing in the front of the classroom
	we have learned about the difference	helping the student review. I will ask them
	between weathering and erosion.	questions about the material previously learned on weathering and erosion.
35 minutes	Instruction:	
	• Students will be placed into	While students prepare to begin their activity, I
	groups (depending on how	will prep my erosion table. I will explain the steps
	many students are in class,	that we will be taking. I will ask them questions while explaining the steps such as, what do you
	there will be 3-4 per group.	think the outcome will be for the Q-tip erosion?
	 Students will get the necessary materials to 	For the toothpick erosion? For the water erosion?
	complete the activity. (Per	
	group: safety goggles, 3-4	As we go through the erosions, I will be
	chocolate chip cookies, 3-4	completing the activity as well. This will ensure
	paper plates, 3-4 q-tips, 3-4	that the students will know how to complete the
	toothpicks, and a small cup	lesson and assure them that they are doing it
	of water.)	correctly. Using the overhead projector and the
	• The very first thing	computer I will also be showing the students slides
	students will do is put their	of erosion so they can compare and contrast what
	safety goggles on.	happens. (There are a few erosion pictures
	• Students will start with Q-	attached to the bottom)
	tip erosion. Students will	As we complete the activity, we will discuss why
	place their cookie on the	we think erosion happens. What benefits we get
	first plate and they will try to break the cookie with the	from it and what kind of problems it could cause.
	q-tips. (not much will	The answers that the students provide will help
	happen) Students will	give me an understanding on their comprehension
	record their data onto the	of the lesson.
	worksheets they were given.	
	• Students will put the second	
	cookie they were given on a	
	second plate, get a	
	toothpick, and try to break	
	their cookie. (This is when it	
	is important for the	
	students to have their	
	goggles on because pieces	
	will fly off of the plate.) Students will record their	
	data on the worksheets they	
	were given.	
	 Students the last cookie and 	
	place it on the third plate.	
	They will designate a	
	person from their group to	
	control the timer. The	
	students will pir the small	
	cup of water onto the cookie	

Lesson Timeline with Instructional Strategies & Learning Tasks

Amount of Time	Teaching & Learning Activities (This should be a BULLETED LIST)	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson. (This should be VERY DETAILED)
	 and time it for 1 minute. They will lift the cookie gently to see if anything has changed. They will record their observations while the timer is still moving. They will stop the timer at 5 minutes. The students will view the cookie to see if there was a change and record their observations. Lastly, the students will record their conclusions about which form of erosion was most effective and most efficient. 	
10 minutes	Closure: We will play a jeopardy review game (attached below). Students will stay in groups and each group will get a chance to choose and answer a question. Students will have paper and pencil to keep score.	I will start with instructing the students on how to play the game. I will also inform them that it is up to the groups to keep score. I will be in front of the classroom using the projector and/or computer. I will be clicking the groups option, reading the questions, and revealing the answer. Once the game is over, I will dismiss for the next class.

Accommodations/Modifications

How might I modify instruction for:	For my students that need modification or help, I will provide worksheets that are
Remediation?	filled in with the necessary information. I will provide illustrate instructions, so
Intervention?	they will be able to look at the picture and see what is supposed to happen. I will
IEP/504?	also invite them to my table where I will be doing the activity along with the other
LEP/ESL?	students. There I will be able to provide the necessary assistance. I will be able to
(All students who have plans mandated by	demonstrate the activity while closely viewing and interpreting their reactions.
federal and state law.)	

Differentiation

How might you provide a variety of	I will provide the materials needed to properly complete the lesson such as Paper,
techniques (enhanced scaffolding, explicit	pen or pencil, cookies, water, toothpick, q-tip, water, safety goggles, paper plates,
instruction, contextualized materials,	cups. There will be an explanation or instructions of the activity that we will be
highlighters/color coding, etc.) to ensure all	performing provided in the front of the classroom on the monitor or to the side of
student needs are met?	the screen on the white board.
(All students who are not on specific plans	
mandated by federal and state law.)	

Assessments: Formative and/or Summative

Describe the tools/procedures that will be used in this lesson to monitor students'	X Formative $/\Box$ Summative	The cookie worksheets that the students will be filling out as they perform the activity.
learning of the lesson objective(s) (include type of assessment & what is assessed).	X Formative / Summative	The jeopardy review game that will be performed towards the end of class.
	X Formative / Summative	What knowledge the students have gain by doing the erosion activity.

Research/Theory

Explain connections to theories and/or	It shows that erosion is a potential danger to our environment as it washes or
research (as well as experts in the field or	takes away nutrient-rich topsoil that is needed to grow our food. It is important
national organization positions) that support	for students to understand the process, so that if there is a problem, they are able
the approach you chose and justify your	to help find a solution. It also helps students become aware of the geographic
choices using principles of the connected	changes that may occur.
theories and/or research.	

Lesson Reflection/Evaluation

What went well?	TO BE FILLED IN AFTER TEACHING
What changes should be made?	
How will I use assessment data for next	
steps?	

Include supporting material such as slides, pictures, copy of textbook, and handouts for any activities students will be using as part of your lesson.

*adapted from: <u>http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; <u>http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx;</u></u>

http://www.meneese.edu/f/c/9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;https://www.uwsp.edu/education/Documents/edTPA/Resource11.pdf;

https://www.uwsp.edu/education/Documents/edTPA/Resource11a.pdf; https://www.uwsp.edu/education/Documents/edTPA/LessonPlanTemplateSOE.docx; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanGuide.docx;

https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplate.docx

Jeopardy Powerpoint



EarthScienceReview GameWeatheringErc





Erosion Exploration

When I used the Q-tip to erode the chocolate chip cookie, I observed:

Exploration #2 When I used the toothpick to erode the chocolate chip cookie, I observed:

Exploration #3 When I used water to erode the chocolate chip cookie for one minute, I observed:

When I used water to erode the chocolate chip cookie for five minutes, I observed:

Conclusions:

Pictures of Erosion











Updated 12-17-19 NLC

Padlet

Weathering and erosion

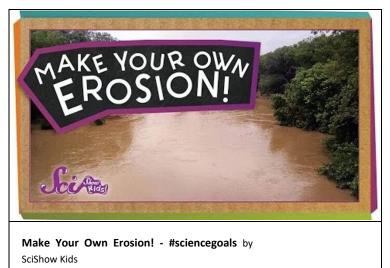
4th grade

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Erosion at home

Games



YOUTUBE

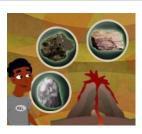
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Students, this video shows how to make your own erosion activity home. Get your family involved. You WILL need to ask for an

This will lead to a set of games that you may choose from and at participate in. adult to help.

Rocks, Minerals, and Landforms: **2** StudyJams! Interactive Sciene Activities | Scholas**ti**

Introduce students to everything from volcanoes and earthquakes to fossils and sedimentary rocks using these 12 fun StudyJams! science activities.

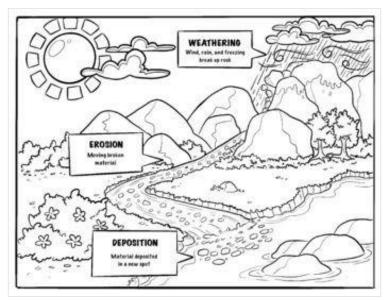


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Coloring worksheet

Print this worksheet off, color it, and turn it in. If you need help printing this off please let me know.











EarthScienceReviewGameWeatheringErosionandDeposition Powerpoint presentation PADLET DRIVE Updated 12-17-19 NLC
