1. LE	1. LESSON PLAN LEARNING OUTCOMES AND PROCEDURE				
Esse	ntial	How are weathering and erosion different?			
Ques	tion(s)/	How are weathering and erosion related?			
Cent	al Focus	How does the formation of soil relate to the processes of weathering and			
		erosion?			
Learning		Students will be able to			
Obje	ctive(s)	Explain the effects of human activity on the erosion of the earth's surface			
		Explain physical process (erosion) on geological features			
		Describe the process that change rocks and the surface of earth			
CCG	PS or GPS	S6E5. Students will investigate the scientific view of how the earth's			
Stand	dard(s)	surface is formed.			
		d. Describe processes that change rocks and the surface of the earth.			
		f. Explain the effects of physical processes (plate tectonics, erosion,			
		deposition, volcanic eruption, gravity) on geological features including oceans			
		(composition, currents, and tides).			
		h. Describe soil as consisting of weathered rocks and decomposed organic			
		material.			
		i. Explain the effects of human activity on the erosion of the earth's surface			
	Introduc-	Activating Strategy/Sponge (Informal Assessment)			
ť	tion to	As a sponge, students will create a KWL chart, in their interactive notebooks,			
00	Lesson	on weathering and erosion. The teacher will explain to the students that they			
ldr		are only to complete the K and W sections of the chart.			
SI					
lat		After allowing time for the students to complete both sections, the class will			
ţ		discuss what was written on their charts.			
sks sko	Body of	I Do (Modeling)			
_as ds	Lesson	The teacher will show students a video from YouTube on weathering and			
g J ee		erosion. As the video is plaving, the students should take detailed notes on			
Z		some facts that they came across in the video. After the video has finished			
ent		playing, the class will discuss some of the facts that were presented in the			
es Ide		video. After the discussion, the teacher will explain to the students that they			
Sti Sti		will create two different erosion demonstrations.			
e e					
gie		We Do (Guided Practice)			
oi c		The teacher will pass out the materials (sugar cubes, gravel, and small jars)			
tra		for the first erosion demonstration. After all material have been passed out to			
S		the students, the teacher and class will place sugar cubes and gravel into a			
na		small jar. The class will first observe and draw what they see then shake the			
tio		iar vigorously for at least 5 minutes. After completing the experiment students			
nc		should follow the worksheet provided, draw what they observe and after they			
stri		have completed the experiment should answer the appropriate questions			
lns		After allowing time for the class to complete the activity the teacher will start			
		a discussion about what the class observed.			

		You Do (Collaborative Practice)
		After the discussion has ended, the teacher will pass out the materials for the
		next demonstration. While passing out the materials, the teacher will explain
		to the students that they will be creating a beach erosion for the next
		demonstration. Each group of students will be given a bag with 4 containers
		of play dough, 6 foam sheets, 25 popsicle sticks, and a large paint pan. Each
		aroup of students will be given enough sand to fill up one side of the
		container and enough water to fill the other side. This combination of sand
		and water will be used to represent a beach. To replicate the erosion process
		students will be instructed to carefully move the pan back and forth to create
		a wave like motion in the water. Students Should observe what happens to
		the sand and answer appropriate questions. After students replicate coastal
		erosion they will have a straw to replicate wind erosion. After students
		observe the erosion process they will be instructed to come up with a plan
		and create a model to show how they can stop or slow down the process of
		both wind and beach erosion. At the end of the experiment student groups
		will present their plan and model to the class.
	Closure	Exit Ticket (Informal Assessment)
		For the exit ticket, the students will complete the L portion of the KWL and
		discuss what they have learned. After the discussion students will write a
		short letter to the president explaining why the government should put more
		money into helping fight erosion.
		Hemewerk (Formal Accessment)
		Descerch and write on 4 page report on weve, to slow the process of costal
		research and white an I page report on ways to slow the process of costal
le	arning	Student A B C and D all have reading comprehension needs. All directions
Su	pports:	will be read aloud to the students and repeated multiple times. All text will be
Dif	ferentiation.	simplified to match the learner's needs.
Mo	dification(s)	
an	d	Student A is an ESOL learner. To accommodate this student, I will provide
Accommoda-		this student with explicit instructions and allowing the student to participate in
tio	n(s)	hands-on activities.
	-	
Formal and		Formal Assessment: A formal assessment is found in the closure of the
Informal		lesson. As homework students have to write a report on how to slow the
Assessment		process of erosion, this assesses what the students have learned from the
		lesson.
		Informal Assessment: Informal assessments were found throughout the
		lesson. One informal assessment that was given was for students to
Complete the KWL chart.		
2.		Students are expected to explain the physical process of erosion.
Jic	Functions	
len	Vocabulary	Students are expected to explain the physical process of erosion by using the
ad		following vocabulary words when speaking: Erosion, Weathering, Geological,
Ac		Earth Surface

Synt	ax or	Students will use appropriate vocabulary when explaining the process of
Disc	ourse	erosion.
Materials		Sugar Cubes
		Small Jars
		Gravel
		Large Paint Pan
		Water
		Sand
		Foam Sheet
		Play Dough
		Popsicle Sticks
		Straws
		Worksheet with probing questions
Technol	ogy	Promethean board is used to show student videos from YouTube