Lesson	Plan	Temp	late
Date: _			

Grade: 4	Subject: Science
Materials:	Technology Needed:
2-liter bottles, spray bottles, baking trays, wood or other material to	Internet connection
elevate surface, soil	
Instructional Strategies:	Guided Practices and Concrete Application:
	duided Fractices and Concrete Application.
☐ Direct instruction ☐ Peer teaching/collaboration/	☐ Large group activity ☐ Hands-on
Guided practice cooperative learning	☐ Independent activity ☐ Technology integration
☐ Socratic Seminar ☐ Visuals/Graphic organizers	□ Pairing/collaboration □ Imitation/Repeat/Mimic
□ Learning Centers □ PBL	
☐ Lecture ☐ Discussion/Debate	☐ Simulations/Scenarios
,	□ Other (list)
☐ Technology integration ☐ Modeling	Explain:
Other (list)	
Standard(s)	Differentiation
4-ESS2-1 Make observations and metric measurements to	
provide evidence of the effects of weathering and the rate	Al Postistano de la constanta de la const
of erosion by water, ice, wind, or vegetation.	Above Proficiency: may identify more types of erosion.
Objective(s).	Approaching/Emerging Proficiency: Should be able to come up
By the end of the lesson, students will discover the rate of soil erosio	
by experimenting and observing patterns with soil, spray bottles fille	1
with water, and an elevated surface.	Modalities/Learning Preferences:
•	_
	Visual:
	Auditory:
	Kinesthetic:
	Tactile:
Classroom Management- (grouping(s), movement/transitions, etc.)	Behavior Expectations- (systems, strategies, procedures specific to the
Students will stay seated at their desks for initial instruction, then wi	
work in groups to conduct experiments.	Students are expected to perform the experiments as directed and
	work as a group to make observations.
Minutes	
Minutes Procedures	
1 Set-up/Prep:	
1 Set-up/Prep: Needed materials available and ready to distribute	
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior	learning / stimulate interest /generate questions, etc.)
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide.	
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior	
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide.	
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss.	notice? Why do you think this happened?"
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at least	notice? Why do you think this happened?"
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to	notice? Why do you think this happened?"
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.)	notice? Why do you think this happened?" It one I wonder statement." fall down the hill or how much water it took to make it fall.
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students." 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and metals."	notice? Why do you think this happened?" It one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and meaning away of land is erosion. Erosion is the wearing a	notice? Why do you think this happened?" It one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and meaning away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, to	notice? Why do you think this happened?" It one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and meaning away of land is erosion. Erosion is the wearing a	notice? Why do you think this happened?" It one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and matering away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, we show picture of Grand Canyon.	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and m wearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this p	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?"
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and m wearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this p "Take a moment to write down at least one I wonder sta	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?"
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to 3-5 Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and m wearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this p "Take a moment to write down at least one I wonder stad Discuss students I wonder statements.	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lead Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this per Take a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I was a caused by snow melting and meaning and meaning away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, where the shown picture of the Grand Canyon, how did this per the grand Canyon have grand the gra	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and m wearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this p "Take a moment to write down at least one I wonder stad Discuss students I wonder statements. "We are going to think of a testable question from our I the classroom and discover the answer for. Write down at least one I wonder statements."	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lead Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this per Take a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I was a caused by snow melting and meaning and meaning away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, where the shown picture of the Grand Canyon, how did this per the grand Canyon have grand the gra	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at leas Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this perace a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I was the classroom and discover the answer for. Write down at have class come up with two agreeable variables to test	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)."
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to took for the dirt to sexplain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, a Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this perace that it is picture of the Grand Canyon, how did this perace the amoment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I will the classroom and discover the answer for. Write down at Have class come up with two agreeable variables to test "You are going to work in a group to test your question as the state of the grand canyon the state of the class to test of the grand canyon to test your question as the class of the grand canyon the state of the grand canyon the class come up with two agreeable variables to test of the grand canyon the grand canyon the class of the grand canyon the grand ca	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water.
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to sexplain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, a Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this permake a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I we have class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction."	it one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. Indidetermine how erosion occurs with certain amounts of water. Today
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to sexplain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, a Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this permake a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I we have class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and complete	it one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. Ind determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document).
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to sexplain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, a Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this permake a moment to write down at least one I wonder stands a moment to write down at least one I wonder stands a moment to write down at least one I wonder stands the classroom and discover the answer for. Write down at the classroom and discover the answer for. Write down at the class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the experiment and completed to the student packets for the exper	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." evonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. and determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). th relevant learning task -connections from content to real-life
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to sexplain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, a Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this permake a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I are the class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and complete Explore: (independent, concreate practice/application we experiences, reflective questions- probing or clarifying questions-	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. Ind determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). th relevant learning task -connections from content to real-life uestions)
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to to students to think of how long it took for the dirt to sexplain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and movering away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, and Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at this picture of the Grand Canyon, how did this positive of Grand Canyon. "Look at his picture of the Grand Canyon, how did this positive of Grand Canyon	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." evonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. and determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). th relevant learning task -connections from content to real-life
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to this is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this perace of the Grand Canyon, how did the perace of the Grand Canyon, how did the perace of the Grand Canyon, how did the perace of t	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. and determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). th relevant learning task -connections from content to real-life uestions) Show students how to adjust the pressure of water coming out of the
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to this is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this perace of the Grand Canyon, how did the perace of the Grand Canyon, how did the perace of the Grand Canyon, how did the perace of t	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. Ind determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). th relevant learning task -connections from content to real-life uestions)
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, and Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this pure "Take a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I was the classroom and discover the answer for. Write down at Have class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and complete the complete student packets for the experiment and complete students for the experiment the effect of different students for different students	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. and determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). the relevant learning task -connections from content to real-life testions) Show students how to adjust the pressure of water coming out of the teamounts of water on soil. We will observe the rate of erosion with
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this perace a moment to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I we have class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and complete Explore: (independent, concreate practice/application we experiences, reflective questions- probing or clarifying questions of the experiment sproups. Spray bottle. "Today we are going to experiment the effect of different different amounts of water by using spray bottles to repute the spray bettles to repute the spray bettles to repute the spray	notice? Why do you think this happened?" It one I wonder statement." If all down the hill or how much water it took to make it fall. Asking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." Which caused the soil to move and wear away." Art of the Earth get carved out?" It ement about the river and how erosion occurred." Wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." In the experiment such as the amount of water. Ind determine how erosion occurs with certain amounts of water. Today It page one. (attached below, double-click to see entire document). Ith relevant learning task -connections from content to real-life uestions) Show students how to adjust the pressure of water coming out of the tamounts of water on soil. We will observe the rate of erosion with esent rain. Each group has a spray bottle filled with water and a boat-like
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to students to think of how long it took for the dirt to this is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this permanent to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I we have class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and complete Explore: (independent, concreate practice/application we experiences, reflective questions- probing or clarifying questions of the state of the experiment of the groups. Spray bottle. "Today we are going to experiment the effect of different different amounts of water by using spray bottles to reprontance of soil. You will draw a picture diagram of the state o	notice? Why do you think this happened?" st one I wonder statement." fall down the hill or how much water it took to make it fall. aking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." which caused the soil to move and wear away." art of the Earth get carved out?" tement about the river and how erosion occurred." wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." in the experiment such as the amount of water. and determine how erosion occurs with certain amounts of water. Today the page one. (attached below, double-click to see entire document). the relevant learning task -connections from content to real-life testions) Show students how to adjust the pressure of water coming out of the teamounts of water on soil. We will observe the rate of erosion with
1 Set-up/Prep: Needed materials available and ready to distribute 3-7 Engage: (opening activity/ anticipatory Set – access prior Show picture of Bismarck landslide. "This is a picture of River Road in Bismarck. What do you Generate student ideas and discuss. "Take out your science notebooks and write down at lea Guide students to think of how long it took for the dirt to Explain: (concepts, procedures, vocabulary, etc.) "This is a landslide; it was caused by snow melting and mearing away of land is erosion. Erosion is the wearing a "In this instance, the snow melted and turned to water, and Show picture of Grand Canyon. "Look at this picture of the Grand Canyon, how did this permanent to write down at least one I wonder state Discuss students I wonder statements. "We are going to think of a testable question from our I will the classroom and discover the answer for. Write down at Have class come up with two agreeable variables to test "You are going to work in a group to test your question a we will focus on making a prediction." Hand out student packets for the experiment and complete Explore: (independent, concreate practice/application we experiences, reflective questions- probing or clarifying questions of the experiment of the groups. Spray bottle. "Today we are going to experiment the effect of different different amounts of water by using spray bottles to repute the different amounts of water by using spray bottles to repute the strategy of the st	notice? Why do you think this happened?" It one I wonder statement." If all down the hill or how much water it took to make it fall. Asking the soil in the ground move down the hill. Another word for the way of the Earth's surface by forces such as wind, water, and ice." Which caused the soil to move and wear away." Art of the Earth get carved out?" It ement about the river and how erosion occurred." Wonder statements. A testable question is one that we can investigate in testable question based off your I wonder statement(s)." In the experiment such as the amount of water. Ind determine how erosion occurs with certain amounts of water. Today It page one. (attached below, double-click to see entire document). Ith relevant learning task -connections from content to real-life uestions) Show students how to adjust the pressure of water coming out of the tamounts of water on soil. We will observe the rate of erosion with esent rain. Each group has a spray bottle filled with water and a boat-like

Lesson	Plan	Temp	late
Date: _			

	"Now you will complete page three on your own and record your observations. Be sure to include the drawing of the soil before
	your experiment, if you sprayed the soil with a mist or a strong shot of water, and a drawing of the soil afterwards."
	Give students time to work, monitor and provide assistance as needed.
5-8	Review (wrap up and transition to next activity):
	Discuss student findings and compare observation results.
	"Take out your science notebooks and write a conclusion for your experiment. Did your prediction match your results? How did
	your results compare with your classmates?"

Formative Assessment: (linked to objectives, during learning)

 Progress monitoring throughout lesson (how can you document your student's learning?)

Exit ticket asking "what is erosion? And what other questions do you have about erosion." (attached below, double-click to view entire document).

Summative Assessment (linked back to objectives, END of learning) Will be given after other forms of erosion have been covered within the unit (wind and ice). (attached below, double-click to view entire document).

Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

Students showed in their formative assessment exit tickets that they had questions about other types of erosion. This showed me that they were ready to explore other ways erosion can occur, and we can begin talking about weathering. Throughout the lesson, students needed to be in groups that would best suit their engagement. I found that they were able to complete the experiments without much redirection, and students were able to help their peers fill out the observation sheets. If I taught this lesson again, I would add more explanation about the scientific process of experimenting.



erosion rubric.pdf

Rubric:

Lesson	Plan	Temp	late
Date:			

Name	Exit Ticket
1.	What is erosion?
2.	What question(s) do you have about erosion?
	Exit Ticket What is erosion?
1.	What is erosion?
2.	What question(s) do you have about erosion?
	What is erosion?
2.	What question(s) do you have about erosion?

Lesson	Plan	Temp	late
Date: _			

Erosion Unit Post-Assessment

Look at each word and mark the box that best describes your understanding of the word.

	I've never heard	I've heard this	I know what th
	this word		word means and
	before.	know what it	can teach some
		means.	else about it.
osion			
athering			
position			
ıcier			
 diment			
d rain			
What is the d	ifference between wea	thering and erosio	n?
What is the d	ifference between wea	thering and erosio	n?
	ifference between wea		
Give two exam			
Give two exam	nples of weathering or e		
Give two exam	nples of weathering or e		

Lesson	Plan	Template
Date:		

Erosion Experiment

Directions: How will the amount of water affect the amount of erosion in the soil?					
Write or draw your predication below.					