Names: Date: Class:

Oil Spill Cleanup Worksheet

Materials Your Group Should Have	V	laterials	Your	Group S	Should	Have
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- plastic tub
- cup or beaker
- ruler
 - 1. Take the plastic tub to the sink and fill it halfway with water. Then bring the tub back to your group's work area.
 - 2. With your teacher, take 1/4 CUP OIL and 1 TABLESPOON COCOA POWDER and mix with a spoon. Then, pour the oil into your tub of water and wait for 30 seconds.

rite down v	what your group saw happening (observe up to three things). Did the oil and water mix
3.	Take a spoon and try to mix the oil and the water together.
w what do	you see happening (observe up to three things)? Did the oil and water mix?





 Using your ruler (or a scale), measure th the numbers down below. 	e height of the water and the height of the oil and write
WATER	OIL
Draw a picture here of what the oil and water in you	r tub look like.
Why do you think the oil and water do not like each chance to speak.	other? Make sure every member of your group gets a

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Now we will try to get the oil back OUT of the water. Look at your teacher's desk. The materials on the desk are what you will use to get the oil out of the water.			
	Materials Available For Cleanup		
 salt dish soap microwave ice string popsicle sticks spoon cotton balls 			
Which materials do YOU think will w	ork the best to get the oil out of	the water?	

- 5. Now test! Go to the teacher's desk and take three of the materials that your group thought would help get rid of the oil. You can try them one at a time or mix and match. As you try different materials, answer the questions below.
 - a. As you get oil out of the tub, pour it into your group's cup.

What material(s) did you use?

Why did your group choose this material?



ΜΔΤΕΡΙΔΙ 1



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	How did you use th	is material?			
			re the height of the oil and vill that you got OUT of the wa		
		WATER		OIL	
TUB		CUP	TUB	CUP	
	MATERIAL 2 What material(s) di	d you use?			
	Why did your group	o choose this material?			





mes	:	Dat	e: CI	ass:				
,	How did you use th	is material?						
,								
		oup's ruler again and measun the cup is the amount of o						
		WATER		OIL				
UB		CUP	TUB	CUP				
	MATERIAL 3 What material(s) di	d you use?						
,	Why did your grou	p choose this material?						
,								
,	How did you use th	iis material?						
,								





	, ,		are the height of the oil and vill that you got OUT of the wa	
		WATER		OIL
TUB		CUP	TUB	CUP
Which ma	9. Great job! No	e best? Why?	low as a group and write dov	vn your answers.
Are there at the water?	•	at you DIDN'T try that you	think would have worked	better to get the oil out of
-		<u>-</u>	how would you try to get of from water. (Give it an aw	

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STOP here until the teacher tells you to go on.
10. AFTER a class discussion with your teacher, answer this question: Which real-world oil cleanup machine looks the most like the machine that your team designed in Step 9? What real-world strategy is your machine using? If you cannot think of any that your machine design uses, pick your favorite real-world oil cleanup machine and explain how it works.

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11. Amazing job! If you haven't yet, CAREFULLY dump your tub and cup of water down the drain and turn in this worksheet to your teacher. Don't forget to write your group members' names on it.

Names:

