



Nomo(s)	Project Number
	r roject Number
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	30012
Project Title	
Surviving Oil Spills	
Objectives/Goals Abstract	
The objective of this project is to determine which filtering material works the b	best when filtering a
mixture of oil and water to aid in oil spill clean-up.	
I made 29 filter systems using plastic cups, hylon hose, suspension sticks and 7 different filter materials	
(Perilite, soil, nylon, peat moss, Vermiculite, cotton, and a mixture of all the above). I then mixed 50ml of	
oil with 50ml of water. Next, I poured the oil/water mixture through the filter systems and let each drain	
for 15 minutes before removing. Then I let the filtered mixture separate for 7 d	ays. Finally, I recorded
the amount of oil recovered and the amount of the water lost. I was looking for most oil and left the most water	the filter that removed the
Results	
The nylon filter worked the most efficiently. It removed 59% of the oil and left	61% of the water. The
cotton filter was very close. It removed 58% of the oil and left 63% of the water system was soil. It removed only 15% of the oil. The other filter materials fall i	r. The least efficient filter
Conclusions/Discussion	ii the initiale.
The nylon filter and cotton filter seem to be the best at removing the oil and leaving the water in the	
system. My hypothesis was wrong. If an oil spill occurs, nylon and cotton appe	ar to be the most efficient
at cleaning the oil from the water.	
Summary Statement	
This experiment tests different filtration choices to aid in oil spill clean-up	
This experiment tests different induction choices to uid in on spin clean up.	
Help Received	
Mom helped with some of the typing: Dad supervised some of the graphing	
norpes with some of the typing, but supervised some of the Bruphing.	