

# Oil Spill

## Examples of Student Work

Contributed by: Kentucky Department of Education (KDE)

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### SAMPLE RESPONSES

#### KIRIS Performance Event, Grade 8 1993-94

#### Task: S1 - Oil Spill

3. Use the table in the rubric to record the results (data and observations) of your experiments. Share and collect data concerning all the materials with members of your group. Discuss the effectiveness of each absorbent material.

**Question 3 - Event Score = 2**

Effectiveness of Absorbents		
Absorbent	Data	Observations
Feather	End solution: ≈ 4:1 or 5:1 water to oil	the feather worked best (surprisingly) because it only skimmed the oil off the top instead of soaking up oil + water together. The little hooks holding the feathers fibers together effectively made it a scooper / trowel / etc.
<del>Blank</del> Sponge (Sorry!)	End solution: almost nil	the sponge's container started out with only a little water and oil in the first place, but it soaked it all up together (water and oil), so that there was almost nothing left to pour into the beaker
Yarn	End Solution: almost nil	as with the sponge, the yarn's oil-water solution was low to start with, and it also soaked up both oil and water at the same time Note: the oil had to be pushed out of the wool with a paper towel
<del>Blank</del> Styrofoam	End solution: ≈ 1:1 (equal parts oil + water)	the styrofoam did not soak anything up, and therefore had to be used as a small scooper it did not work well

Question 3 - Event Score = 1

Effectiveness of Absorbents		
Absorbent	Data	Observations
Feather	Feather used. 0.5 scoop	got most of oil out of water
Styrofoam		
Yarn	The yarn is like an absorber	The yarn absorbed some of the oil but not all of it.
Sponge	The sponge was like an absorber	The sponge absorbed more water than oil.

Question 3 - Event Score = 0

Effectiveness of Absorbents		
Absorbent	Costs	Observations
Feather		The feather absorbed 50 ml. of oil
Styrofoam		
Yarn		
Sponge		

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