Experiment 9 Worksheet: Oil, Water and Chocolate Mousse

**Purpose:** (A statement should be made here regarding what your experiment is designed to accomplish.)

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

**Procedure:** (Describe here how you went about completing your experiment. Use enough detail that someone could repeat it, if necessary. Also reference any books or manuals you may have used to assist you.)

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

**Data:**

Describe the appearance of the following:

“Ocean Water”: ___________________________________________________________

________________________________________________________________________

________________________________________________________________________

“Crude Oil”: _____________________________________________________________

________________________________________________________________________

“Oil Spill”: ______________________________________________________________

________________________________________________________________________

________________________________________________________________________

“Oily Feather”: __________________________________________________________

________________________________________________________________________

________________________________________________________________________

(Check the Table using experimental results.)

<table>
<thead>
<tr>
<th>Sorbent</th>
<th>Effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper towel</td>
<td></td>
</tr>
<tr>
<td>Cotton balls</td>
<td></td>
</tr>
<tr>
<td>Sponge</td>
<td></td>
</tr>
<tr>
<td>Shredded wheat</td>
<td></td>
</tr>
<tr>
<td>Styrofoam cup</td>
<td></td>
</tr>
</tbody>
</table>
Questions:
Does the oil sink or float in the water? ______________________________________
Why?   ___________________________________________________________________
Which of the sorbents works best? ___________________________________________
Why?   ___________________________________________________________________
________________________________________________________________________
What effect did the detergent have on the oil spill? ____________________________
________________________________________________________________________
What causes this effect?  _________________________________________________
How well would detergent work in a real oil spill? ____________________________
________________________________________________________________________
What happens to a bird’s feather when soaked in oil? __________________________
________________________________________________________________________
How would this affect the bird’s survival in the wild? _________________________
________________________________________________________________________
Conclusions: (Summarize your results here and discuss possible errors that may have occurred during the testing.)
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________