Stop Heat from Escaping Worksheet

1. Copy the problem question we are working on today.

___________________________________________________________________________
___________________________________________________________________________

2. Below are the four types of insulation we are looking at today. Make a prediction. Circle the one you think will keep the most heat from escaping.

<table>
<thead>
<tr>
<th>Newspaper</th>
<th>Wool</th>
<th>Aluminum Foil</th>
<th>Plastic</th>
</tr>
</thead>
</table>

3. Fill in the following temperature chart with your observations:

<table>
<thead>
<tr>
<th>Insulation</th>
<th>Beginning Temperature</th>
<th>subtract</th>
<th>Ending Temperature</th>
<th>equals</th>
<th>Change in Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newspaper</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wool</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum Foil</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic</td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Draw a picture of your set-up below. (Draw and label the four bottles.)
5. What happened? Write two sentences for your conclusions.

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

6. What would you change next time you did this experiment?

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________

7. Why would an energy engineer need to know about different insulation?

___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________