Radiation
- Transfers __________________________ in the form of __________________________.
- __________________________ between objects.
- Examples:

Conduction
- Transfers __________________________ in the form of __________________________.
- __________________________ between objects.
- Examples:

Convection
- Transfers __________________________ in the form of __________________________.
- __________________________ in a fluid (__________________________)
  where warm particles rise and cold particles sink.
- Examples:
Heat Flow
- Thermal Energy flows from _______________ $\rightarrow$ _______________

Specific Heat
- Symbol _____________  Units ________________
  - The amount of _________________ (heat) needed to raise the temperature of _________________ of substance by _________________.

From the lab (U5 - 3), why did the sand heat faster than the water?

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specific Heat $(J/(kg*K))$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td></td>
</tr>
<tr>
<td>Rubber</td>
<td>1600</td>
</tr>
<tr>
<td>Aluminum</td>
<td>903</td>
</tr>
<tr>
<td>Air</td>
<td>1000</td>
</tr>
</tbody>
</table>