Permeable Pavement Activity – Community Engineering Post-Assessment Worksheet

A town called New Community has a river that runs through the middle of it. New Community would like your engineers to design a path along the riparian area of the river for people to walk and bike along.

They want a path that meets the following **needs**:

- Absorbent
- Low cost
- Low maintenance

Using the chart below, draw a design on the map that will work for New Community. (You can use one or more materials.) Then answer questions 1 and 2.

<table>
<thead>
<tr>
<th>Material</th>
<th>Absorbent</th>
<th>Cost</th>
<th>Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt/sand</td>
<td>High</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Pavement</td>
<td>Low</td>
<td>Medium</td>
<td>Low</td>
</tr>
<tr>
<td>Permeable pavement</td>
<td>High</td>
<td>High</td>
<td>Medium</td>
</tr>
</tbody>
</table>

Rivers: Lesson 1, Permeable Pavement Activity – Community Engineering Post-Assessment Worksheet
1. Explain your design:

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2. Did you have to decide which *need* was more important than another? Which did you choose and why?

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