How to Assemble

- Print the Gene Cards, for a group of up to 32 learners, print:
  - 8 x bacterium shapes page
  - 8 x bacterium cell wall page
  - 11 x how many bacteria? page
  - 11 x flagella location page
  - 13 x special features page
- Cut out the card stripes using the black guide lines at the edge of the page
- Fold each Gene Card in half, with the instructions and illustration on one side, and the title and blue tac/velcro marker on the other
- Stick together or laminate the folded Cards
- Add velcro or blue tac to the black box on the title side
- If using velcro, add the opposite piece of velcro to the laminated worksheet in the centre of the coloured boxes
Build a Bacterial activity - Bacterium shape gene cards. Print this page x 8 for a class set.

Bacterium shape

- Sphere
  - Draw a circle shape for your bacteria

Bacterium shape

- Rod
  - Draw an oval shape for your bacteria

Bacterium shape

- Sphere
  - Draw a circle shape for your bacteria

Bacterium shape

- Rod
  - Draw an oval shape for your bacteria
Build a Bacteria! activity - Bacterium call wall gene cards - Print this page x 8 for a class set.
Build a Bacterial activity - How many bacterium? cards - Print this page x 11 for a class set

How many bacterium?

- Chain of 2
  - Make two of your bacteria shapes (and any borders)

- Chain of 3
  - Make three of your bacteria shapes (and any borders)

- Chain of 4
  - Make four of your bacteria shapes (and any borders)
<table>
<thead>
<tr>
<th>Flagella location</th>
<th>Flagella location:</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>At one end</td>
<td><strong>Flagella location:</strong></td>
<td>Add some pieces of string to</td>
</tr>
<tr>
<td></td>
<td><strong>At one end</strong></td>
<td>one end of your bacteria</td>
</tr>
<tr>
<td>At two ends</td>
<td><strong>Flagella location:</strong></td>
<td>Add some pieces of string to</td>
</tr>
<tr>
<td></td>
<td><strong>At two ends</strong></td>
<td>two ends of your bacteria</td>
</tr>
<tr>
<td>All around</td>
<td><strong>Flagella location:</strong></td>
<td>Add some pieces of string all</td>
</tr>
<tr>
<td></td>
<td><strong>All around</strong></td>
<td>around your bacteria</td>
</tr>
</tbody>
</table>
Build a Bacterial activity - Bacterium special feature gene cards - Print this page x 13 for a class set

**Special Feature: Toxin release**
Add to your bacteria

**Special Feature: Pili**
Add to your bacteria

**Special Feature: Immunity evader protein**
Add to your bacteria

**Special Feature: Immune response trigger**
Add to your bacteria

**Special Feature: Cell wall support**
Add to your bacteria