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Engineering Design Process

**Think, Build, Test, Do It Again**
That’s the process engineers use when they tackle a problem. Engineers don’t have official rules telling them to follow this set of steps. But, over time they’ve learned that they get the best results this way.

They **think** and brainstorm about a problem and factors they have to consider to solve it. They come up with an idea and **build** a prototype. They **test** the prototype. And, then they **repeat** the process to improve their results.

**It Takes a Lot of Back and Forth**

Engineers often **move back and forth within the loop**, repeating two steps over and over again before moving forward. It’s a key to engineering success. Sometimes, engineers will focus on one specific step, and when complete, pass the project off to another team with a different skill set.

**Engineers are creative problem solvers!**

**This kit generously sponsored by:**

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Dino Robots

**Scientific Concept:** Physics, force

**Recommended Ages:** 8 to 12

**Scientific Practice:** Engineering

**What to know about this kit:**

This colorful dinosaur themed robotic kit lets you build up to 7 different robots that move thanks to the motor and rivet system.

Please note: This kit must be returned to a staff member at an Anchorage Public Library location.
## Kit Contents & Replacement Costs

<table>
<thead>
<tr>
<th>Item Type</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object</td>
<td>Dino robot kit (see photo)</td>
<td>$50</td>
</tr>
<tr>
<td>Leaflet</td>
<td>Dino robot instruction manual</td>
<td>N/A</td>
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<tr>
<td>Book</td>
<td><em>DK findout! Robots</em></td>
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<td>Book</td>
<td><em>Building Your Own Robots</em></td>
<td>$10</td>
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<td></td>
<td>Packaging &amp; Processing Fee:</td>
<td>$25</td>
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<tr>
<td><strong>Total Kit Replacement Cost:</strong></td>
<td></td>
<td><strong>$96</strong></td>
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</tbody>
</table>

Please verify all parts are present before returning.