### Science Assessment Framework

<table>
<thead>
<tr>
<th>Knowledge area</th>
<th>Measuring and Observing</th>
<th>Interpreting and Representing Data</th>
<th>Predicting/Concluding</th>
<th>Investigating</th>
<th>Reasoning/Problem Solving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth and Beyond</td>
<td>measure changes in the structure of materials</td>
<td>identify factors that influence the growth of organisms</td>
<td>make predictions about the impact of climate change</td>
<td>assess the impact of human activities on ecosystems</td>
<td>evaluate the effectiveness of conservation strategies</td>
</tr>
<tr>
<td>Natural and Processed Materials</td>
<td>measure changes in the structure of materials</td>
<td>identify factors that influence the growth of organisms</td>
<td>make predictions about the impact of climate change</td>
<td>assess the impact of human activities on ecosystems</td>
<td>evaluate the effectiveness of conservation strategies</td>
</tr>
<tr>
<td>Life and Living</td>
<td>measure changes in the structure of materials</td>
<td>identify factors that influence the growth of organisms</td>
<td>make predictions about the impact of climate change</td>
<td>assess the impact of human activities on ecosystems</td>
<td>evaluate the effectiveness of conservation strategies</td>
</tr>
<tr>
<td>Energy and Change</td>
<td>measure changes in the structure of materials</td>
<td>identify factors that influence the growth of organisms</td>
<td>make predictions about the impact of climate change</td>
<td>assess the impact of human activities on ecosystems</td>
<td>evaluate the effectiveness of conservation strategies</td>
</tr>
</tbody>
</table>

### Earth and Beyond
- **Knowledge area:** measure changes in the structure of materials
- **Measuring and Observing:** investigate the impact of human activities on ecosystems
- **Interpreting and Representing Data:** assess the impact of climate change on ecosystems
- **Predicting/Concluding:** evaluate the effectiveness of conservation strategies
- **Investigating:** assess the impact of human activities on ecosystems
- **Reasoning/Problem Solving:** evaluate the effectiveness of conservation strategies

### Natural and Processed Materials
- **Knowledge area:** measure changes in the structure of materials
- **Measuring and Observing:** investigate the impact of human activities on ecosystems
- **Interpreting and Representing Data:** assess the impact of climate change on ecosystems
- **Predicting/Concluding:** evaluate the effectiveness of conservation strategies
- **Investigating:** assess the impact of human activities on ecosystems
- **Reasoning/Problem Solving:** evaluate the effectiveness of conservation strategies

### Life and Living
- **Knowledge area:** measure changes in the structure of materials
- **Measuring and Observing:** investigate the impact of human activities on ecosystems
- **Interpreting and Representing Data:** assess the impact of climate change on ecosystems
- **Predicting/Concluding:** evaluate the effectiveness of conservation strategies
- **Investigating:** assess the impact of human activities on ecosystems
- **Reasoning/Problem Solving:** evaluate the effectiveness of conservation strategies

### Energy and Change
- **Knowledge area:** measure changes in the structure of materials
- **Measuring and Observing:** investigate the impact of human activities on ecosystems
- **Interpreting and Representing Data:** assess the impact of climate change on ecosystems
- **Predicting/Concluding:** evaluate the effectiveness of conservation strategies
- **Investigating:** assess the impact of human activities on ecosystems
- **Reasoning/Problem Solving:** evaluate the effectiveness of conservation strategies