Coordinated ICT Assessment Framework

Students apply ICT strategies to solve complex problems and manage information. They demonstrate their knowledge and ability to operate technologies as they choose and demonstrate use of appropriate tools.

<table>
<thead>
<tr>
<th>General Cognitive Demands</th>
<th>ICT Knowledge &amp; Strategies: Use Technology to Solve Complex Problems</th>
<th>Sample Component Strategies: Use Technology to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declarative Knowledge</td>
<td>Identify ICT domain and function</td>
<td>Identify features</td>
</tr>
<tr>
<td></td>
<td>Identify features and functions of technology tools</td>
<td>Identify functions</td>
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<td></td>
<td>Identify uses of tools</td>
<td>For each tool group and specific tool, identify appropriate uses</td>
</tr>
<tr>
<td>Procedural Knowledge</td>
<td>Guide tasks and procedures</td>
<td>Follow directions</td>
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<td></td>
<td>Open tasks</td>
<td>Use algorithm</td>
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<tr>
<td></td>
<td>Perform procedures</td>
<td>Produce component and complete operations</td>
</tr>
</tbody>
</table>

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**Prototype Performance Assessments**
- **Predator-Prey**: For 13-year-olds. Modules assess strategic use of Internet, productivity, communication, and modeling tools in a problem-based scenario drawing on life science concepts associated with population dynamics.
- **Car Crash**: For secondary students. Modules assess inquiry strategies using the Interactive Physics modeling tool to solve a design problem requiring use of physics and mathematics concepts associated with Newton’s Laws of Motion.
- **Solar Power**: For secondary students. Modules assess strategies used to solve a solar energy problem using the ArchiViewer visualization tool and knowledge of earth science and mathematics concepts associated with solar radiation.

**Scenarios—describing modules for additional performance assessments**

**Survey—development and administration of technical infrastructure survey to 19 countries**

**Publications and Presentations**

**For More Information**
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