Information and Communication Technology — ICT for 9th Grade Students

A scenario-based assessment to measure proficiency in using information and communication technology

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Presentation Objectives

- To provide background information about ICT assessment

- To showcase ICT tools and highlights their benefits
Objective #1

ICT Background
Purpose of the Assessment

- **Goal:** to provide a realistic, scenario-based, problem-based assessment that measures the breadth and depth of ICT literacy

- **Intended:**
  - as an important discussion and policy making tool for the low and middle income countries.
  - to provide a “second opinion” about 9th grade student’s information literacy.
  - to confirm the general trend in ICT for 9th grade students

- **Target Population:** 9 grade students
Advantages of the Assessment

- Interactive, computer, and performance-based
- Real-world storylines
- Higher order reading and thinking skills
- Uses digital technologies and communication tools to solve cognitive problems in an ethical and legal way
- Scored automatically
- Targets ICT proficiencies
Defining the ICT Assessment

Measures ability to use digital technology, communication tools, and/or networks effectively and responsibly in order to function in a knowledge society.

Includes the ability to perform the following operations on information:

- **Define**: Formulate a research statement to facilitate the search for information
- **Access**: Find and retrieve information from a variety of sources
- **Evaluate**: Judge the usefulness and sufficiency of information for a specific purpose
- **Manage**: Organize information so as to find it later
- **Integrate**: Summarize or otherwise synthesize information from a variety of sources
- **Create**: Generate or adapt information to meet a need, expressing a main point and supporting information
- **Communicate**: Adapt information for a particular audience
Selection Criteria

- Reliability
- Availability
- Effectiveness
40.5 grams of sugar
18 grams of sugar
0 grams of sugar
Selection

Which option would you chose?
Desirable Option

• **Consistent (reliable)** reasonably or logically harmonious

• **Available (Obtainable)** able to be obtained or reached

• **Nutrient (Effective)** causing a result, especially the desired or intended result
Consistent

- ICT assessment provides a common yardstick for measuring the progress of the students ICT literacy level across the country.

ICT tasks

Every Region
Region Comparisons
Consistent

Results: National, regional, school
Piloted Region ICT Results

- **ICT Grade 9**
- **Regional Public average level** Medium | **Tomsk average ICT level** High
- Tomsk students performed statistically above the nation’s public school students
- 4 regions out performed Tomsk.
Large City Results

ICT Grade 9

- Large City average ICT level is High | Streshevoi average ICT level is Low
Students and Teaches ICT

Grade 9 Students

- Below Basic: 57
- Basic: 21
- Proficient: 22

Teachers

- Below Basic: 19
- Basic: 52
- Proficient: 29

Percentage at or below Basic

Percentage at or above Proficient
Relation Between Hours Per Day Spent Watching Television and ICT

- 26% Low
- 28% Medium
- 25% High
- 22% More
- 20% More
- 14% More
- 15% More
The results are released as The ICT Nation’s Report, Regional and School reports.
AVAILABLE

- Frameworks
  www......
- ICT sample Questions
- www.
- ICT Result
  www
ICT assessment could be called the “gold standard” of assessments because of its high technical quality and it represents the best thinking of assessment specialists, educational experts, teachers, and content specialists from around the world.
Teachers, principals, parents, policymakers, and researchers all can use ICT literacy assessment results to assess student progress and develop ways to improve education in a country.
ICT literacy assessment is ...

- CONSISTENT
- OBTAINABLE
- EFFECTIVE
<table>
<thead>
<tr>
<th>Statement</th>
<th>% Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>I have never taken a test like this one before.</td>
<td>90%</td>
</tr>
<tr>
<td>This test was appropriately challenging</td>
<td>85%</td>
</tr>
<tr>
<td>To perform well on this test requires mostly thinking skills.</td>
<td>94%</td>
</tr>
<tr>
<td>I enjoyed taking this test.</td>
<td>80%</td>
</tr>
<tr>
<td>The tasks reflect activities I have done at school, work, or home.</td>
<td>87%</td>
</tr>
</tbody>
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Thank you for your attention!