

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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Effective Assessment Systems: Strengthening the Enabling Environment

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

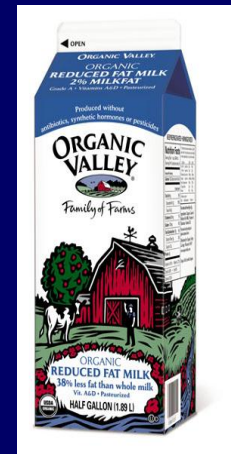




40.5 grams of sugar



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

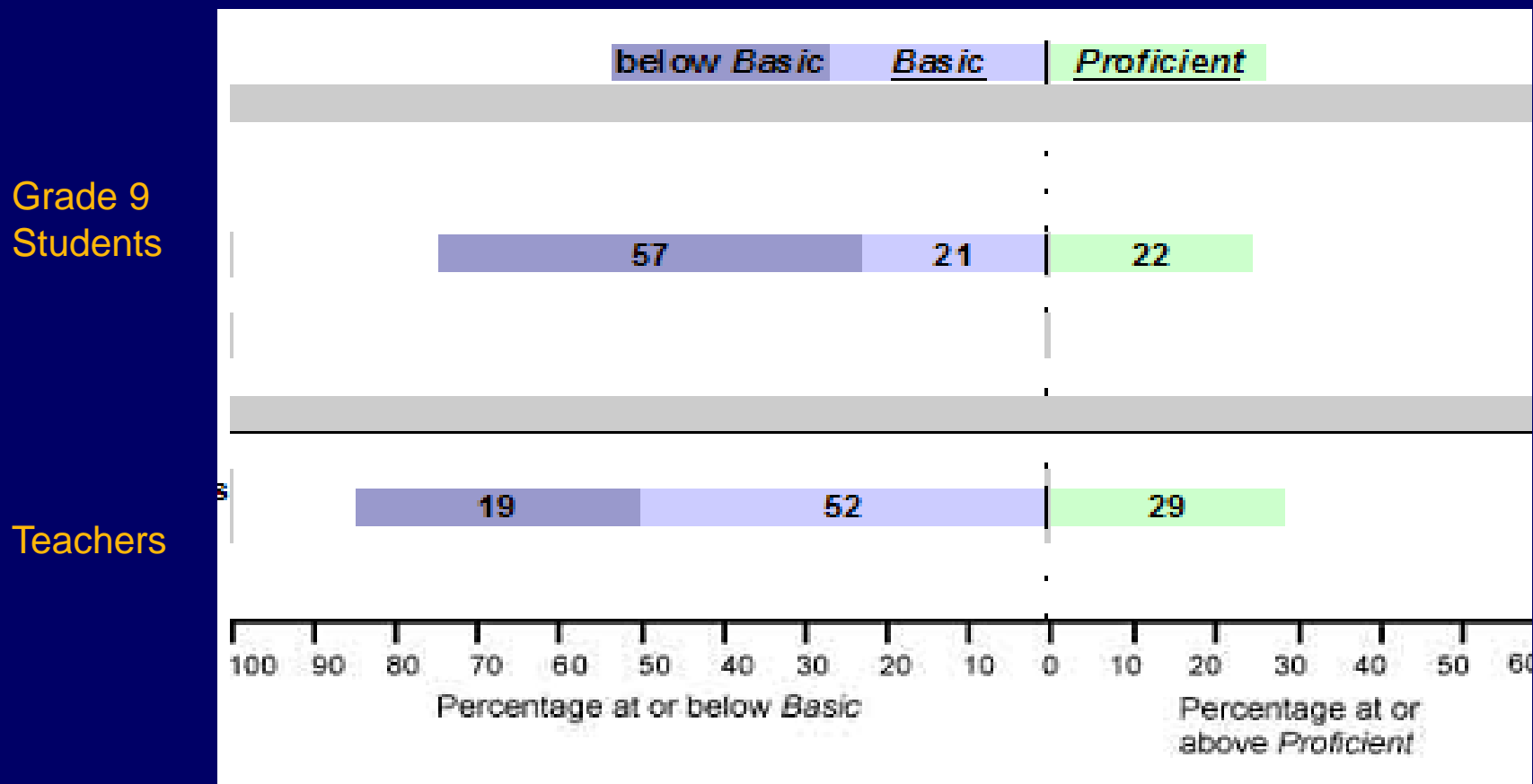
- ICT Grade 9
- *Regional Public average level Medium | Tomsk average ICT level High*
- Tomsk students performed statistically above the nation's public school students
- 4 regions out performed Tomsk.

Large City Results

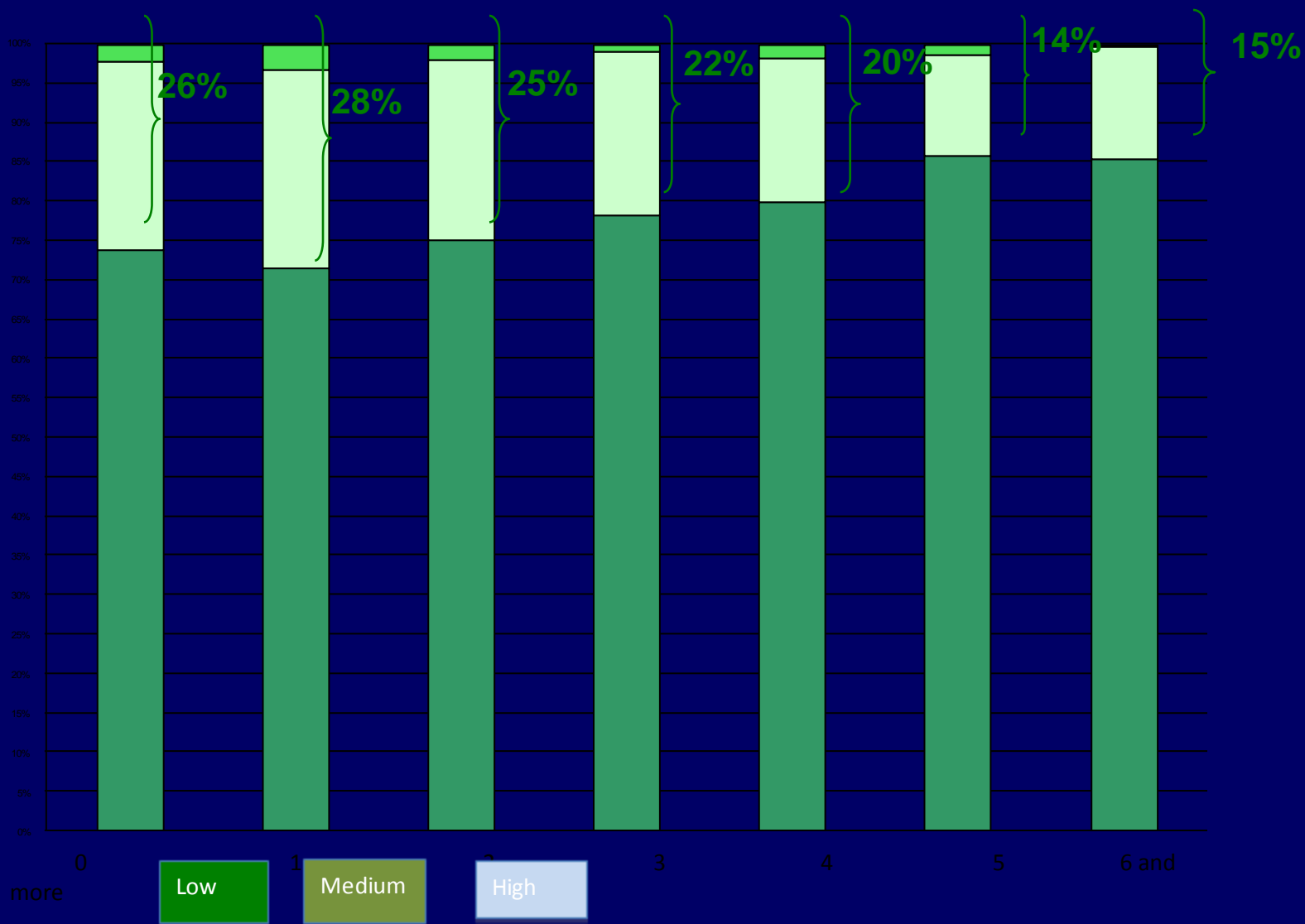
ICT Grade 9

- *Large City average ICT level is High | Streshevoi average ICT level is Low*

Students and Teaches ICT



Relation Between Hours Per Day Spent Watching Television and ICT





AVAILABLE

The results are released as The ICT Nation's Report ,
Regional and School reports



AVAILABLE

- Frameworks

www.....

- ICT sample Questions

- www.

- ICT Result

www

EFFECTIVE

- 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.

EFFECTIVE

- 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

What did the Students Think About the Assessment?

	% Agree
I have never taken a test like this one before.	90%
This test was appropriately challenging	85%
To perform well on this test requires mostly thinking skills.	94%
I enjoyed taking this test.	80%
The tasks reflect activities I have done at school, work, or home.	87%

Thank you for your attention!



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