



2023 NEQMAP Webinar Consultation

Integrating 21st century skills in teaching and learning policies and practices

EMPOWERING SCHOOL PRACTIONERS

PBL Approach for Assessing 21st Century Skills in the context of Pakistan

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Who We Are?

Aga Khan University Examination Board (AKU-EB)

An awarding body and mandated to work in the development and implementation of K-12 system to introduce:



Fair and transparent system



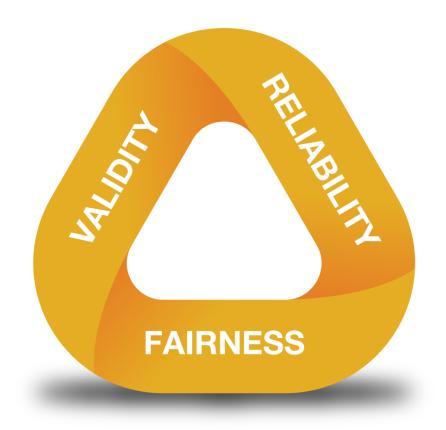
Promote conceptual learning



Quality of assessment



Improve classroom teaching



Missing Pieces of the Puzzle

CURRICULUM =

Cognition

Psychomotor

Affective

Focuses only on assessment of knowledge acquisition. A significant part of curriculum is missing in terms of classroom teaching, learning and assessment.

Project-Based Learning (PBL)

AKU-EB Project-Based Learning (PBL) Framework





- Trans-provincial curricula
- UN Sustainable Development Goal 4
- Standardised Rubric



- Decision making
- Scaffolding
- Integrated learning
- Learning by doing
- Teacher as facilitator



- Skill performance
- Learning oriented
- Self-reflection
- Trial and error element
- Constant cognitive stimulation



- Consist of two or more than two subjects
- (STEM, STEAM, FAME)



- Learning goals
- Content questions
- Step by step instructions
- Teacher guide
- Command words



- Contextual and community oriented
- Application of knowledge
- National needs (global citizenship, entrepreneurship, ethics and pluralism, mental health and resilience)



- Information gathering
- Listens, reads, views
- Communication skills
- Interpersonal skills
- Team work
- Responsibility
- Problem solving/ critical thinking
- Creativity and innovation



- Self-assessment
- Peer assessment
- Rubric assessment
- In-project group discussions



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Translating Framework into Project Development

Feedback from the field

Idea generation team-up with content experts
Dot-to-dot plan

Development of project
Resource

creation

Multiple reviews

- Interdisciplinary
- Editorial
- Teachers Review
- Internal Review Committee

Designing and Printing of PBL Books

Creating Multiple Opportunities to Demonstrate 21st Century Skills





Task

You are group of tour guides which have been requested by a family with six members to arrange a week-long trip to Norway. In this regard, you will first research about the country and then prepare an itinerary and financial budget for the tour. Lastly, you will prepare a travel guide for the family that gives comprehensive information about the country, commonly used language, budget expense and itinerary.

Remember: Tourist guides that can share additional information about the tourist country along with the brief comparrison with their native country are always preferred most!.

Presentation

Travel Guide

What will I Learn (Learning Goals)?

At the end of the project, students should be able to

- 1. locate Norway and its capital city on the world map.
- 2. explore distinct geographical facts of Norway.
- 3. prepare an itinerary for a trip to Norway.
- 4. prepare an expense budget sheet for travelling to Norway.
- 5. compare and contrast Norwegian culture with Pakistani culture.



Middle School Programme

Method

Stage I: Geography of Norway

- 1. Form a group of 4 to 5 members with the help of your teacher.
- 2. On the world map, identify the location of Norway and locate its capital city. Point to Ponder: What advantages can Norway enjoy based on its location?
- A basic requirement of foreign travel is visa of that country. Research about
 the importance of visa, visa requirements to travel to Norway and visa
 application process. Prepare a flowchart to depict the collected information.
- 4. Explore different airline options for travelling to Norway and complete Table 1.

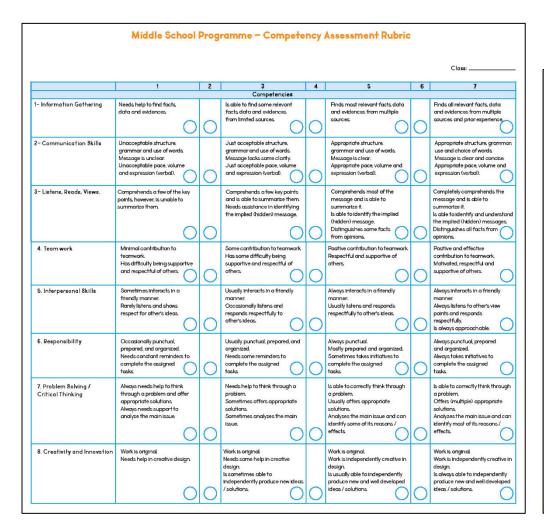
 Choose the BEST option from all the possibilities.

Table 1

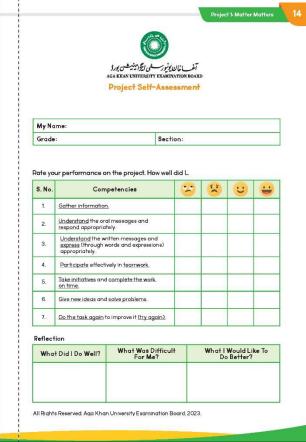
Route	Options (Available Airlines)	Approximate Time to Travel	Cost of Travel
	Route	Route (Available	

Point to Ponder: Can you think of different routes to travel to Norway by roadways or waterways with the help of the map (used in Step 2)?

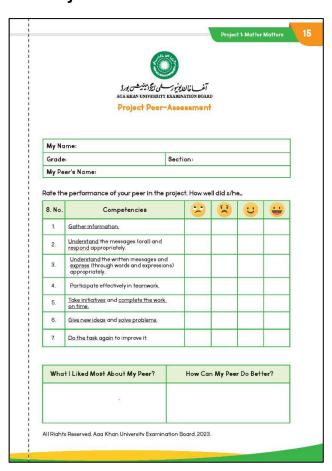
Multiple Tools for Assessment



Project Self-Assessment



Project Peer-Assessment



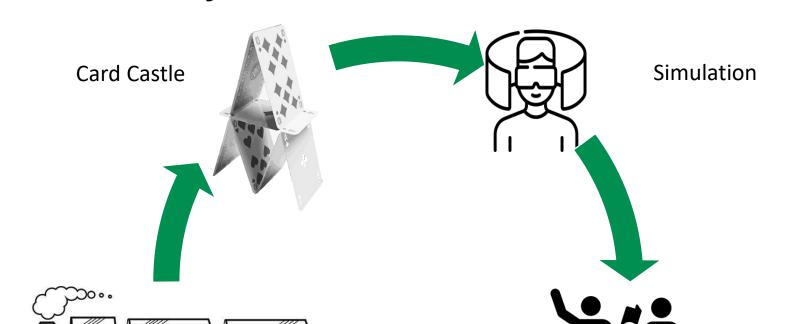
Multiple Tools for Assessment

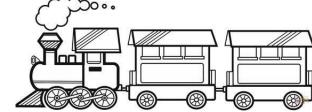
Middle School Programme – Competency Assessment Rubric

Class:

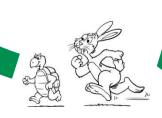
	1	2	3	4	5	6	7
			Competencies				
1- Information Gathering	Needs help to find facts, data and evidences.	0	Is able to find some relevant facts data and evidences from limited sources	0	Finds most relevant facts data and evidences from multiple sources.	0	Finds all relevant facts, data and evidences from multiple sources and prior experience
2- Communication Skills	Unacceptable structure, grammar and use of words. Message is unclear. Unacceptable pace, volume and expression (verbal).	0	Just acceptable structure, grammar and use of words. Message lacks some clarity. Just acceptable pace, volume and expression (verbal).	0	Appropriate structure, grammar and use of words. Message is clear. Appropriate pace, volume and expression (verbal).	0	Appropriate structure, grammar: use and choice of words. Message is clear and concise. Appropriate pace, volume and expression (verbal).
3– Listens, Reads, Views.	Comprehends a few of the key points, however, is unable to summarize them.	0	Comprehends a few key points and is able to summarize them. Needs assistance in Identifying the Implied (hidden) message.	0	Comprehends most of the message and is able to summarize it. Is able to identify the implied (hidden) message. Distinguishes some facts from opinions.	0	Completely comprehends the message and is able to summarize it. Is able to identify and understand the implied (hidden) messages. Distinguishes all facts from opinions.

Assessing 21st Century Skills





Joining the coaches



Rabbit and Tortoise: An

Dumb Charades

unfished story

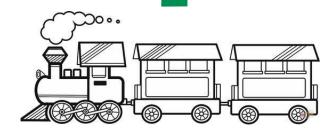
Assessing 21st Century Skills

Team Work Assessing Oneself and Others

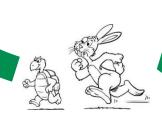




Real Life Connection: Overcoming Bias



Administratively Effective

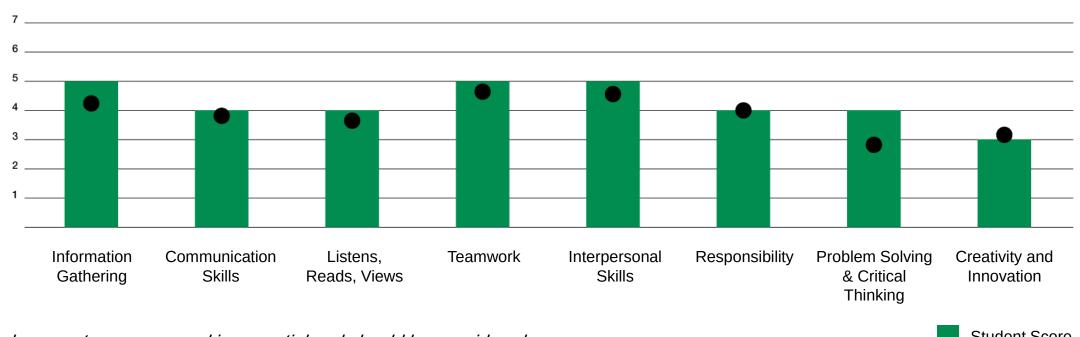




Creativity and Innovations

Project-Based Learning: Reporting

Project Competency Assessment*



^{*}Each competency assessed is essential and should be considered independently for student's personal development.

Project-Based Learning: Feedback

Competency Assessment and Comments

Successful Completion of the Project

The project contains all requirements and most process documents.

Understanding of the Concepts

The student has demonstrated an indepth understanding of all concepts and applied most of them appropriately.

Information Gathering

Finds all relevant facts, data and evidences from multiple sources.

Communication Skills

Appropriate structure, grammar and use of words. Message is clear and concise. Appropriate pace, volume and expression.

Listens, Reads, Views

Completely comprehends the message and is able to summarize it. Is able to identify the implied (hidden) message. Distinguishes some facts from opinions.

Teamwork

Positive and effective contribution to teamwork. Respectful and supportive of others.

Interpersonal Skills

Always interacts in a friendly manner. Always listens to other's view points and responds respectfully. Is often approachable.

Responsibility

Always punctual, prepared and organized. Often takes initiatives to complete the assigned tasks.

Problem Solving / Critical Thinking

Is able to correctly think through a problem. Offers (multiple) appropriate solutions. Analyzes the main issue and can identify some of its reasons/ effects.

Creativity and Innovation

Work is original. Work is independently creative in design. Is always able to independently produce new and, usually, well-developed ideas/ solutions.

Teamwork

Positive and effective contribution to teamwork. Respectful and supportive of others.

Problem Solving & Critical Thinking

Is able to correctly think through a problem. Offers appropriate solutions. Analyses the main issue and can identify some of its reasons/ effects.

Creativity & Innovation

Work is original. Work is independently creative in design. Always able to produce new solutions.

Empowered-Teachers





Capacity Development



Engaging Classrooms

Moving Forward



Primary Level (Grades 4-5)

 Demand for structured program to build strong foundation for Primary Students



Secondary and Higher Secondary Levels (Grades 9-12)

- Authentic assessment by adding value to continuous assessment in high-stakes
- Replacing traditional Science Practical approach with PBL

