

**EVALUATION OF THE CREATIVITY AND LOGICAL THINKING SKILLS
OF GRADE 7 MAKATI SCIENCE HIGH SCHOOL LEARNERS
(SURVEY QUESTIONNAIRE)**

ACTION RESEARCH TITLE:

- ☒ Impact of Project-Based Learning on Creativity and Logical Thinking of Grade 7 Learners in Scratch Programming

PART I. Demographic Information

Name: (Optional): _____

Age:

- ☐ 11-12
☐ 12-13
☐ 13-14

Section:

- ☐ Archimedes
☐ Aristotle
☐ Copernicus
☐ Dalton
☐ Galileo
☐ Pascal

How many months have you been using Scratch programming?

- ☐ Less than 3 months
☐ 3-4 months
☐ 5-6 months
☐ More than 6 months

How familiar are you with the use of project-based learning (PBL) in Scratch programming?

- ☐ Very familiar
☐ Somewhat familiar
☐ Not familiar

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PART I: Evaluation of the Creativity and Logical Thinking Skills of Grade 7 MSHS Learners

Direction: Please rate each statement based on your level of agreement using the following scale:

LIKERT SCALE		
Scale Values	Ranges	Verbal Interpretation
4	3.50 - 4.00	Strongly Agree
3	2.50 - 3.49	Agree
2	1.50 - 2.49	Disagree
1	1.00 - 1.49	Strongly Disagree

PART II: Survey Questionnaires

This survey is designed to gather insights about learners' experiences and perceptions of project-based learning's impact on their creativity and logical thinking in Scratch programming. The scale and open-ended questions will help provide both quantitative and qualitative data for analysis.

Impact of Project-Based Learning on Creativity and Logical Thinking of Grade 7 Learners in Scratch Programming					
1. Creativity in Scratch Programming Through PBL		4	3	2	1
1.1	Project-based learning activities encourage me to think of new and unique ideas for my Scratch projects.				
1.2	I feel more confident about expressing my creativity through Scratch programming when working on PBL tasks.				
1.3	PBL helps me use Scratch features (e.g., sprites, sounds, animations) in creative ways.				
1.4	Collaborating with my peers during PBL activities enhances my creativity in Scratch programming.				
1.5	I often feel inspired to create innovative solutions for project challenges when using Scratch.				
2. Logical Thinking in Scratch Programming Through PBL		4	3	2	1
2.1	PBL activities have improved my ability to plan and organize steps before creating Scratch programs.				
2.2	I can identify and fix errors in my Scratch code more effectively through PBL tasks.				

2.3	Project-based learning helps me develop logical strategies to solve programming problems.				
2.4	I feel more confident applying logical thinking skills to my Scratch projects after completing PBL activities.				
2.5	Breaking down complex programming tasks into smaller parts has become easier through PBL.				
3. Creativity and Logical Thinking in Scratch Through PBL		4	3	2	1
3.1	I believe that my creativity and logical thinking complement each other when working on Scratch programming projects.				
3.2	PBL activities help me connect creative ideas with logical steps to improve my Scratch projects.				
3.3	Working on Scratch projects through PBL has enhanced my ability to think critically and logically.				
3.4	I can apply logical reasoning to bring my creative ideas to life in Scratch programming.				
3.5	PBL tasks allow me to balance creativity and problem-solving in my Scratch projects.				
4. Problem-Solving Skills in Project-Based Scratch Activities		4	3	2	1
4.1	Project-based learning in Scratch helps me develop strategies to solve coding problems.				
4.2	I feel more confident in solving challenges when I work on Scratch projects.				
4.3	I use logical reasoning to fix errors and improve the functionality of my Scratch programs.				
4.4	I can apply problem-solving techniques learned in Scratch to other school subjects.				
4.5	Project-based learning encourages me to test different approaches before finalizing a solution in Scratch.				
5. Effectiveness of PBL in Scratch Programming		4	3	2	1
5.1	I find project-based learning more engaging than traditional Scratch programming lessons.				
5.2	PBL activities help me better understand how to create functional and meaningful Scratch programs.				
5.3	I feel more motivated to learn Scratch programming when using the PBL approach.				
5.4	PBL has made me more confident in presenting my Scratch projects to others.				
5.5	I believe PBL is an effective way to teach both				

	creativity and logical thinking in Scratch programming.				
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1. How has project-based learning helped you become more creative in Scratch programming? Please provide examples.

Answer:

2. In what ways has project-based learning improved your ability to think logically and solve problems in Scratch programming?

Answer: