

Technology for Engaging Class Activities Across the Spectrum



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Preparedness

- Very-Well Prepared Student
- Prepared Student
- Under-prepared



Challenge

How do faculty design class activities where students of all levels of preparedness are engaged and experience learning?



Strategy

- Choose Student Learning Outcome (SLO)
- Choose performance objective
- Competency taken out from activity
- Form student groups with desired combinations of student
- Choose a technology
- Consider all levels of preparedness in designing activity

Technology

Polleverywhere

<https://www.polleverywhere.com/app>

Polleverywhere Guide



Session Outcome

Each participant designs an activity for one of their classes that can be facilitated for students of all levels of preparedness.

Example 1

Grammar

- SLO: Develop coherent writing
- Objective: Properly apply grammar rules
- Competency: Coherent sentence
- Preparedness Levels: varied levels across students
- Groups: Work with those at your table
- Technology: <https://www.polleverywhere.com/app>
- Results displayed

Restricted Values Activity

Determining Restricted Values for Functions

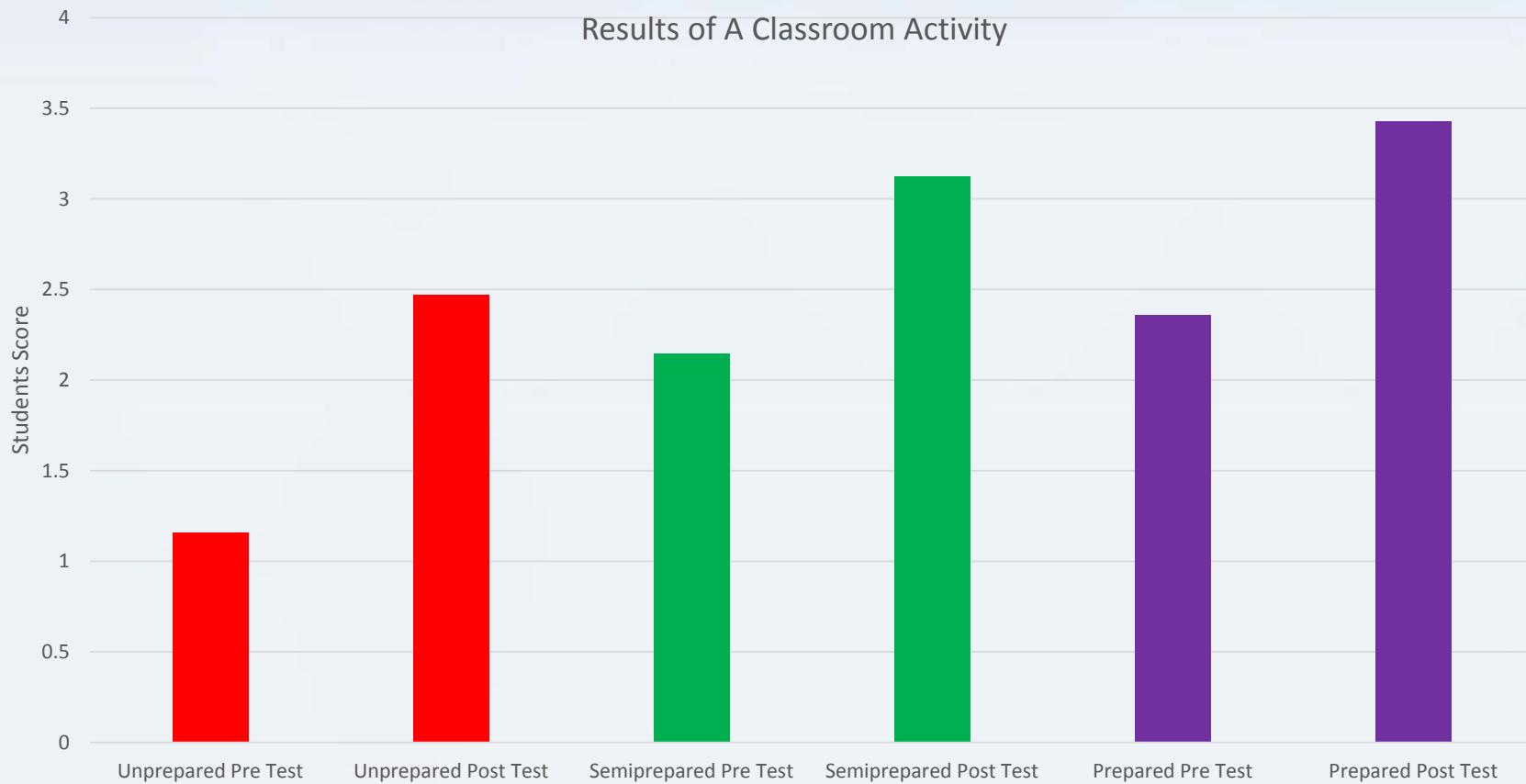
Functions	Restricted Values
1) $y = \sqrt{x-3}$: _____	A. $x \geq 0$
	B. $x > 0$
2) $f(x) = \frac{x+3}{x-3}$: _____	C. $x \leq 0$
	D. $x < 0$
3) $y = \frac{1}{x}$: _____	E. All real numbers
	F. $x \neq 0$
4) $g(x) = \sqrt{x}$: _____	G. $x \neq 3$
	H. $x \geq 3$
5) $h(x) = 3x^2 + 10$: _____	I. $x > 3$
	J. $x < 3$
6) $y = x - 3$: _____	K. $x \leq 3$
7) $y = \frac{\sqrt{x}}{x-3}$: _____	

Example 2

Algebra – Restricted Values

- SLO: Solve equations
- Objective: Determine domain of function
- Competency: Determine restricted values
- Preparedness Levels: Varied levels across students
- Groups: Work with those at your table
- Technology: <https://www.polleverywhere.com/app>
- Our classroom results

Results of A Classroom Activity



Your Turn

- Course
- SLO
- Objective
- Competency
- Preparedness levels
- Groups
- Technology
- Design Activity

Questions

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Thank You

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&

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