

Survey on the Use of Technology in Mathematics Teaching

This survey is jointly conducted by the **ZSNHS Mathematics Department** and the **J. H. Cerilles State College (JHCSC) Mathematics Department** to gather information on mathematics teachers' **access to, familiarity with, use of, and level of mastery of technological tools in mathematics teaching**, with particular attention to the use of **GeoGebra**.

The information gathered will be utilized **for research purposes** and as a basis for identifying teachers' technological needs and areas for further enhancement. The findings will also help inform the planning and development of **future professional development activities, training programs, and collaborative engagements** designed to strengthen the effective integration of technology in mathematics teaching.

Participation in this survey is voluntary. Information provided will be treated with appropriate confidentiality and will be used only for the purposes stated above.

Researchers:

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* Indicates required question

1. Name (Last Name, First Name, M.I.) *

2. Name of School *

3. Schools Division Office *

Mark only one oval.

- ☐ DepEd Pagadian City Division
- ☐ DepEd Zamboanga del Sur Division

4. Number of years in teaching *

5. Age Group *

Mark only one oval.

- ☐ 20 - 25 years old
- ☐ 26 - 30 years old
- ☐ 31 - 35 years old
- ☐ 36 - 40 years old
- ☐ 41 - 45 years old
- ☐ 46 - 50 years old
- ☐ 51 - 55 years old
- ☐ 56 - 60 years old
- ☐ 60 years old & above

6. Position *

Mark only one oval.

- ☐ Teacher 1
- ☐ Teacher 2
- ☐ Teacher 3
- ☐ Teacher 4
- ☐ Teacher 5
- ☐ Teacher 6
- ☐ Teacher 7
- ☐ Master Teacher 1
- ☐ Master Teacher 2
- ☐ Master Teacher 3
- ☐ Master Teacher 4
- ☐ Master Teacher 5
- ☐ Head Teacher

7. Bachelor's Degree *

8. Master's Degree (Indicate if graduated, number of units earned, or none) *

9. Doctoral Degree (Indicate if graduated, number of units earned, or none) *

A. Ownership and Access to Technological Tools

Untitled Section

10. 1. Which of the following technological devices do you personally own? (*Check all that apply.*) *

Check all that apply.

- ☐ Desktop computer
- ☐ Laptop
- ☐ Scientific calculator
- ☐ Smart phone
- ☐ Tablet
- ☐ None

11. 2. Which of the following technological devices are available to you at your school or institution? (*Check all that apply.*) *

Check all that apply.

- ☐ Desktop computer
- ☐ Laptop
- ☐ Scientific calculator
- ☐ Smart phone
- ☐ Tablet
- ☐ None

12. 3. Where do you usually access the internet? (*Check all that apply.*) *

Check all that apply.

- ☐ Home
- ☐ Internet Café
- ☐ School/ Institution
- ☐ Mobile Data
- ☐ No access

13. 4. Which device(s) do you most frequently use to access the internet? *

Check all that apply.

- ☐ Desktop computer
- ☐ Laptop
- ☐ Smartphon
- ☐ Tablet

14. 5. How often do you access the internet at home? *

Mark only one oval.

- ☐ Everyday
- ☐ Few times a week
- ☐ Once a week
- ☐ Few times a month
- ☐ Once a month
- ☐ No access

15. 6. Does your school or institution provide internet access? *

Mark only one oval.

- ☐ Yes
- ☐ No

16. 7. How often do you access the internet provided by your school or institution? *

Mark only one oval.

- ☐ Everyday
- ☐ Few times a week
- ☐ Once a week
- ☐ Few times a month
- ☐ Once a month
- ☐ No access

17. 8. Which of the following devices do you use to prepare mathematics lessons? *(Check all that apply.)* *

Check all that apply.

- ☐ Desktop computer
- ☐ Laptop
- ☐ Scientific calculator
- ☐ Smart phone
- ☐ Tablet
- ☐ None
- ☐ Other

18. 9. Which of the following devices do you use when teaching mathematics lessons * in the classroom? (*Check all that apply.*)

Check all that apply.

- ☐ Desktop computer
- ☐ Laptop
- ☐ Scientific calculator
- ☐ Smart phone
- ☐ Tablet
- ☐ None
- ☐ Other

B. Familiarity, Use, and Mastery of Technology

19. 1. Which of the following technologies are you **familiar** with? *

Mark only one oval per row.

	I am not familiar with this tool yet.	I have heard of it but never used it.	I have tried using it once or twice.	I am familiar with it and use it often.
Word processor (e.g., Microsoft Word, Google Docs)	☐	☐	☐	☐
Spreadsheets (e.g., Microsoft Excel, Google Sheets)	☐	☐	☐	☐
Presentation tools (e.g., PowerPoint, Google Slides, Canva)	☐	☐	☐	☐
Media editing/processing tools (e.g., Microsoft Clipchamp, iMovie)	☐	☐	☐	☐
Automated calculations (e.g., Calculators, online scientific calculators, Wolfram Alpha)	☐	☐	☐	☐
Automated representations (e.g., Apps/tools for graphing and creating charts)	☐	☐	☐	☐
Data exploration tools (e.g.,				

Apps/tools for Data exploration analyzing and understanding datasets to uncover patterns, trends, and insights)	☐	☐	☐	☐
trends, and Visualization of abstract concepts				
(e.g., Apps/tools for diagramming, mind mapping, or word cloud)	☐	☐	☐	☐
mind mapping, or Simulation tools (e.g., Apps/tools for replicating real-world processes or scenarios in a controlled environment)	☐	☐	☐	☐
controlled Collaborative tools (e.g. Google Docs, Google Slides, Github)	☐	☐	☐	☐
Google Slides, AI tools (e.g. ChatGPT, Co-pilot, Meta, Grok)				
AI tools (e.g. ChatGPT, Co-pilot, Meta, Grok)	☐	☐	☐	☐

20. 2. Which of the following technologies have you **used to develop** a mathematics lesson? *

Mark only one oval per row.

	Never	Rarely	Sometimes	Always
Word processor (e.g., Microsoft Word, Google Docs)	☐	☐	☐	☐
Spreadsheets (e.g., Microsoft Excel, Google Sheets)	☐	☐	☐	☐
Presentation tools (e.g., PowerPoint, Google Slides, Canva)	☐	☐	☐	☐
Media editing/processing tools (e.g., Microsoft Clipchamp, iMovie)	☐	☐	☐	☐
Automated calculations (e.g., Calculators, online scientific calculators, Wolfram Alpha)	☐	☐	☐	☐
Automated representations (e.g., Apps/tools for graphing and creating charts)	☐	☐	☐	☐
Data exploration tools (e.g., Apps/tools for analyzing and understanding datasets to uncover patterns.	☐	☐	☐	☐

uncover patterns, trends, and insights)				
Visualization of abstract concepts (e.g., Apps/tools for diagramming, mind mapping, or word cloud)	☐	☐	☐	☐
Simulation tools (e.g., Apps/tools for replicating real-world processes or scenarios in a controlled environment)	☐	☐	☐	☐
Collaborative tools (e.g., Google Docs, Google Slides, GitHub)	☐	☐	☐	☐
AI tools (e.g. ChatGPT, Co-pilot, Meta, Grok)	☐	☐	☐	☐

21. 3. What is your level of **mastery** in using the following technologies to **develop** a * mathematics lesson?

Mark only one oval per row.

	I cannot use this tool independently yet.	I can use it for simple tasks with some guidance.	I can use it confidently for most classroom purposes.	I can use it flexibly and can train or assist others.
Word processor (e.g., Microsoft Word, Google Docs)	☐	☐	☐	☐
Spreadsheets (e.g., Microsoft Excel, Google Sheets)	☐	☐	☐	☐
Presentation tools (e.g., PowerPoint, Google Slides, Canva)	☐	☐	☐	☐
Media editing/processing tools (e.g., Microsoft Clipchamp, iMovie)	☐	☐	☐	☐
Automated calculations (e.g., Calculators, online scientific calculators, Wolfram Alpha)	☐	☐	☐	☐
Automated representations (e.g., Apps/tools for graphing and creating charts)	☐	☐	☐	☐

Data exploration tools (e.g., Apps/tools for analyzing and understanding datasets to uncover patterns, trends, and insights)

Visualization of abstract concepts (e.g., Apps/tools for diagramming, mind mapping, or word cloud)

Simulation tools (e.g., Apps/tools for replicating real-world processes or scenarios in a controlled environment)

Collaborative tools (e.g. Google Docs, Google Slides, Github)

AI tools (e.g. ChatGPT, Co-pilot, Meta, Grok)

22. 4. Which of the following technologies have you used for **teaching** mathematics lessons in the classroom? *

Mark only one oval per row.

	Never	Rarely	Sometimes	Always
Word processor (e.g., Microsoft Word, Google Docs)	☐	☐	☐	☐
Spreadsheets (e.g., Microsoft Excel, Google Sheets)	☐	☐	☐	☐
Presentation tools (e.g., PowerPoint, Google Slides, Canva)	☐	☐	☐	☐
Media editing/processing tools (e.g., Microsoft Clipchamp, iMovie)	☐	☐	☐	☐
Automated calculations (e.g., Calculators, online scientific calculators, Wolfram Alpha)	☐	☐	☐	☐
Automated representations (e.g., Apps/tools for graphing and creating charts)	☐	☐	☐	☐
Data exploration tools (e.g., Apps/tools for analyzing and understanding datasets to uncover patterns.	☐	☐	☐	☐

uncover patterns, trends, and insights)				
Visualization of abstract concepts (e.g., Apps/tools for diagramming, mind mapping, or word cloud)	☐	☐	☐	☐
Simulation tools (e.g., Apps/tools for replicating real-world processes or scenarios in a controlled environment)	☐	☐	☐	☐
Collaborative tools (e.g., Google Docs, Google Slides, GitHub)	☐	☐	☐	☐
AI tools (e.g. ChatGPT, Co-pilot, Meta, Grok)	☐	☐	☐	☐

23. 5. What is your level of **mastery** in using the following technologies for **teaching** * mathematics lessons in the classroom?

Mark only one oval per row.

	I cannot use this tool independently yet.	I can use it for simple tasks with some guidance.	I can use it confidently for most classroom purposes.	I can use it flexibly and can train or assist others.
Word processor (e.g., Microsoft Word, Google Docs)	☐	☐	☐	☐
Spreadsheets (e.g., Microsoft Excel, Google Sheets)	☐	☐	☐	☐
Presentation tools (e.g., PowerPoint, Google Slides, Canva)	☐	☐	☐	☐
Media editing/processing tools (e.g., Microsoft Clipchamp, iMovie)	☐	☐	☐	☐
Automated calculations (e.g., Calculators, online scientific calculators, Wolfram Alpha)	☐	☐	☐	☐
Automated representations (e.g., Apps/tools for graphing and creating charts)	☐	☐	☐	☐

Data exploration tools (e.g., Apps/tools for analyzing and understanding datasets to uncover patterns, trends, and insights)	☐	☐	☐	☐
Visualization of abstract concepts (e.g., Apps/tools for diagramming, mind mapping, or word cloud)	☐	☐	☐	☐
Simulation tools (e.g., Apps/tools for replicating real-world processes or scenarios in a controlled environment)	☐	☐	☐	☐
Collaborative tools (e.g. Google Docs, Google Slides, Github)	☐	☐	☐	☐
AI tools (e.g. ChatGPT, Co-pilot, Meta, Grok)	☐	☐	☐	☐

Use of GeoGebra

24. 1. Are you familiar with GeoGebra? *

Mark only one oval.

- ☐ I am not familiar with GeoGebra
- ☐ I have heard of it but never used it
- ☐ I have tried using it once or twice
- ☐ I am familiar with it and use it often

25. 2. Have you utilized GeoGebra to **develop a mathematics lesson** for the following applications or features?

*

Mark only one oval per row.

	Never	Rarely	Sometimes	Always
As spreadsheet	☐	☐	☐	☐
For presenting concepts	☐	☐	☐	☐
For automating of calculations	☐	☐	☐	☐
For automating of presentations	☐	☐	☐	☐
For exploring of data	☐	☐	☐	☐
For visualizing abstract concepts	☐	☐	☐	☐
For simulations	☐	☐	☐	☐
As a source of ready-made instructional materials to supplement math lessons	☐	☐	☐	☐
As an LMS to monitor students' progress in activities	☐	☐	☐	☐

For
assessment
purposes

☐☐☐☐

26. 3. What is your degree of **mastery** in using GeoGebra to **develop** mathematics lessons for the following applications or features? *

Mark only one oval per row.

	I cannot use this feature independently yet.	I can use it for simple tasks with some guidance.	I can use it confidently for most classroom purposes.	I can use it flexibly and can train or assist others.
As spreadsheet	☐	☐	☐	☐
For presenting concepts	☐	☐	☐	☐
For automating of calculations	☐	☐	☐	☐
For automating of presentations	☐	☐	☐	☐
For exploring of data	☐	☐	☐	☐
For visualizing abstract concepts	☐	☐	☐	☐
For simulations	☐	☐	☐	☐
As a source of ready-made instructional materials to supplement math lessons	☐	☐	☐	☐

supplement

math lessons

As an LMS to

monitor

As an LMS to

students

monitor

progress in

students'

activities

For

assessment

For

assessment

purposes



27. 4. Have you utilized GeoGebra to **teach a mathematics lesson in the classroom** for the following applications or features?

*

Mark only one oval per row.

	Never	Rarely	Sometimes	Always
As spreadsheet	☐	☐	☐	☐
For presenting concepts	☐	☐	☐	☐
For automating of calculations	☐	☐	☐	☐
For automating of presentations	☐	☐	☐	☐
For exploring of data	☐	☐	☐	☐
For visualizing abstract concepts	☐	☐	☐	☐
For simulations	☐	☐	☐	☐
As a source of ready-made instructional materials to supplement math lessons	☐	☐	☐	☐
As an LMS to monitor students' progress in activities	☐	☐	☐	☐

For
assessment
purposes

☐☐☐☐

28. 5. What is your degree of **mastery** in using GeoGebra **to teach** a mathematics lesson in the classroom for the following applications or features?

*

Mark only one oval per row.

	I cannot use this feature independently yet.	I can use it for simple tasks with some guidance.	I can use it confidently for most classroom purposes.	I can use it flexible and can train or assist others.
As spreadsheet	☐	☐	☐	☐
For presenting concepts	☐	☐	☐	☐
For automating of calculations	☐	☐	☐	☐
For automating of presentations	☐	☐	☐	☐
For exploring of data	☐	☐	☐	☐
For visualizing abstract concepts	☐	☐	☐	☐
For simulations	☐	☐	☐	☐
As a source of ready- made instructional materials to supplement math lessons	☐	☐	☐	☐

supplement				
math lessons				
As an LMS to				
monitor				
As an LMS to				
students				
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activities				
For				
assessment				
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