

# Invitation to Participate in Study

You are invited to participate in this research. Your participation is voluntary. Agreement to participate is signified by clicking on the 'NEXT' button immediately below. You will then reach the first page of the electronic survey. The last page of this electronic survey contains a 'SUBMIT' button. When you click on the 'SUBMIT' button, your completed survey will be electronically submitted to the principal investigator. If at any stage during the survey you decide you do not wish to complete and submit it, simply close your browser page/tab or exit your browser.

**\*Required**

## Teaching Experience

The design, development and evaluation of an adaptive learning domain model for post-primary mathematics.

### 1. For how many (whole) years have you taught maths? \*

Mark only one oval.

- ☐ 1 to 5
- ☐ 6 to 10
- ☐ 11 to 15
- ☐ 16 to 20
- ☐ More than 20
- ☐ Other: \_\_\_\_\_

### 2. What percentage of your current timetable is maths? \*

Mark only one oval.

- ☐ 0% to 25%
- ☐ 26% to 50%
- ☐ 51% to 75%
- ☐ 76% to 100%

### 3. Is maths one of your final year degree subjects? \*

Mark only one oval.

- ☐ Yes
- ☐ No

## Textbooks and Resources

The design, development and evaluation of an adaptive learning domain model for post-primary mathematics.

### 4. Do you use a textbook for class? \*

Mark only one oval.

- ☐ Always
- ☐ Sometimes
- ☐ Never

**5. How do you use the textbook? \***

Tick all that apply.

- ☐ To help me teach my maths classes
- ☐ Source of classroom/homework questions
- ☐ Syllabus guide

**6. Do you use any of these devices for teaching maths? \***

Tick all that apply.

- ☐ Classroom PC / Data Projector
- ☐ Tablet Device (e.g. iPad) / Data Projector
- ☐ Interactive Whiteboard / Data Projector
- ☐ Visualiser / Data Projector
- ☐ Other (please specify)

**7. Do you use any of the following software/websites for teaching maths? \***

Tick all that apply.

- ☐ GeoGebra
- ☐ Excel
- ☐ Manga High
- ☐ State Examination Papers/Marking Schemes ([www.examinations.ie](http://www.examinations.ie))
- ☐ The Maths Tutor ([www.themathstutor.ie](http://www.themathstutor.ie))
- ☐ StudyClix ([www.studyclix.ie](http://www.studyclix.ie))
- ☐ Other (please specify)

**8. Do you use worksheets for teaching maths? \***

Mark only one oval.

- ☐ Always
- ☐ Sometimes
- ☐ Never

## Learning Outcomes, Topics, Concepts

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**9. Do you use your own learning outcomes to teach maths? \***

Mark only one oval.

- ☐ Always
- ☐ Sometimes
- ☐ Never

**10. Do you ever use the syllabus learning outcomes to teach maths? \***

Mark only one oval.

- ☐ Always
- ☐ Sometimes
- ☐ Never

**11. Do you use topics (chapters) and sub-topics (sections) to teach maths? \***

Mark only one oval.

- ☐ Always
- ☐ Sometimes
- ☐ Never

**12. Do you use concepts (ideas) to teach maths? \***

Mark only one oval.

- ☐ Always
- ☐ Sometimes
- ☐ Never

## **Schemes of Work, Lesson Plans**

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**13. How often do you use schemes of work? \***

Mark only one oval.

- ☐ Always
- ☐ Often
- ☐ Occasionally
- ☐ Rarely
- ☐ Never

**14. How often do you use lesson plans? \***

Mark only one oval.

- ☐ Always
- ☐ Often
- ☐ Occasionally
- ☐ Rarely
- ☐ Never

**15. What do you use in your schemes of work? \***

Tick all that apply.

- ☐ Concepts
- ☐ Learning Outcomes (syllabus)
- ☐ Learning Outcomes (yours)
- ☐ Topics and Subtopics
- ☐ Mindmaps
- ☐ Other (please specify)

**16. What do you use in your lesson plans? \***

Tick all that apply.

- ☐ Concepts
- ☐ Learning Outcomes (syllabus)
- ☐ Learning Outcomes (yours)
- ☐ Topics and Subtopics
- ☐ Mindmaps
- ☐ Other (please specify)

**Connections in Maths**

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**17. Do you highlight to your students connections between maths concepts? \***

Mark only one oval.

- ☐ Very Often
- ☐ Often
- ☐ Occasionally
- ☐ Rarely
- ☐ Never

**18. How do you highlight connections between maths concepts? \***

Mark only one oval.

- ☐ Within the same strand e.g. two different algebra concepts
- ☐ Across different strands e.g. functions and sequences
- ☐ Both within and across strands
- ☐ Not applicable (I answered 'Never' in the preceding question)

**Domain Model (RhumbI Map)**

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**19. How good was the RhumbI map at linking concepts to learning outcomes? \***

Mark only one oval.

- ☐ Very Good
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Very Poor

**20. How good was the Rhumbl map at linking the same learning outcome to two or more concepts? \***

Mark only one oval.

- ☐ Very Good
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Very Poor

**21. The Rhumbl map's connections between concepts is easy to understand \***

Mark only one oval.

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**22. I would be more likely to highlight connections between concepts if I used Rhumbl maps \***

Mark only one oval.

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**Rhumbl Map (Further Development)**

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**23. Different colours for concepts fully taught, partially taught and not taught is a good idea \***

Mark only one oval.

- ☐ Strongly disagree
- ☐ Disagree
- ☐ Neutral
- ☐ Agree
- ☐ Strongly agree

**24. Different colours for learning concepts fully taught, partially taught and not taught is a good idea \***

Mark only one oval.

- ☐ Strongly disagree
- ☐ Disagree
- ☐ Neutral
- ☐ Agree
- ☐ Strongly agree

## Domain Model (GAM Authoring Tool)

The design, development and evaluation of an adaptive learning domain model for post-primary mathematics.

**25. How good was the GAM Authoring Tool at building a hierarchy of concepts? \***

Mark only one oval.

- ☐ Very Good
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Very Poor

**26. How important is it that maths is taught as a system of hierarchical concepts? \***

Mark only one oval.

- ☐ Very Good
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Very Poor

**27. The GAM Authoring Tool's relationships between concepts is easy to understand. \***

Mark only one oval.

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**28. I would be more likely to highlight relationships between concepts if I used the GAM Authoring Tool. \***

Mark only one oval.

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

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