# ChatGPT\_Survey Overview

#### **TEMSE GenAl group - SoM**

#### 2024-07-31

- 1 About Survey Details
  - 1.1 Data Description
  - 1.2 Survey Key Insight
- 2 Familiarity
- · 3 Benefits and Challenges
- 4 Future

### 1 About Survey Details

The purpose of the survey is to investigate students' experiences and perceptions of generative AI (**GEN-AI SPEX Survey**!). This survey aims to understand how students like you utilize and perceive Generative AI technologies, including but not limited to tools like ChatGPT.

There are **3 main parts (Familiarity - Benefits and Challenges - Future sections)** of the survey including both **5-scale likert type** of questions and **open ended** ones at the end of each section.

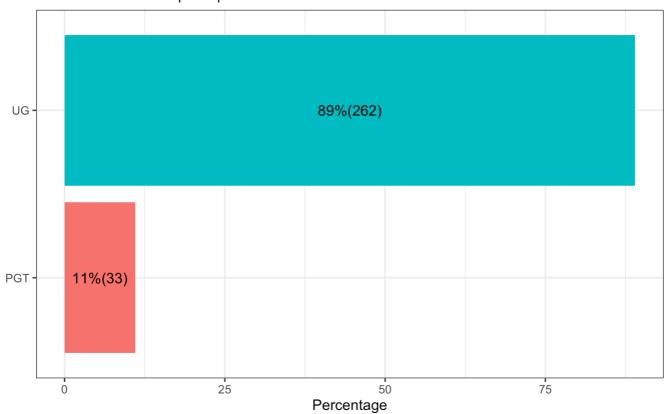
Some key aspects;

- University online survey system (Jisc) is used for the survey delivery and management.
- Students who are taking a course in the School of Mathematics are invited to participate in this study.
- The survey was live during the second half of SEM2 (after flexible learning week) until the end of week
   10.
- Total number of responses 295 (around 10% of the sample) in 53 running days!

### 1.1 Data Description

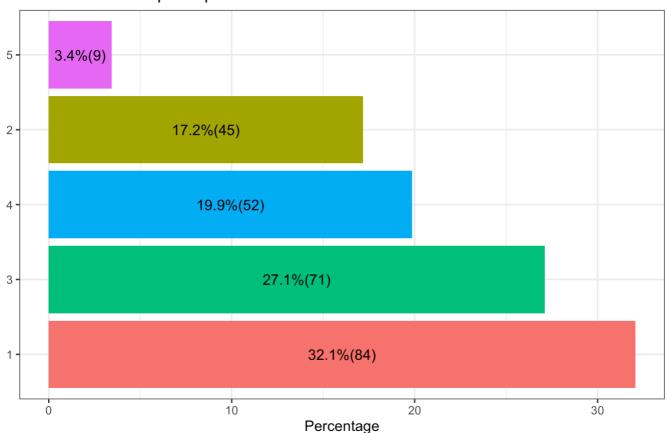
Are you an undergraduate or postgraduate student?

Level overview of the participants



Data Source: SoM GenAl Survey

#### Year level for the participants

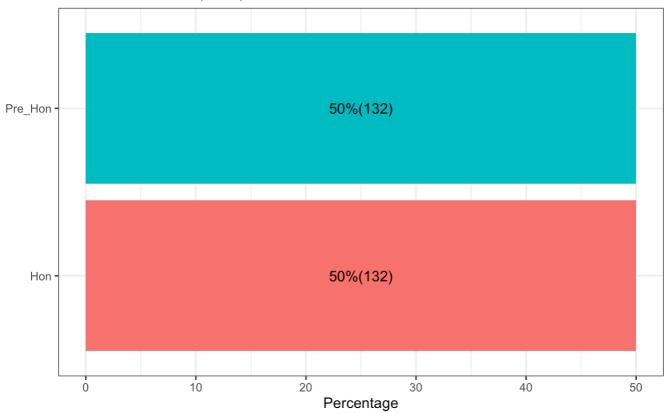


Data Source: SoM GenAl Survey

In terms of Pre-honours and Honours separation, based on year levels (1-2: Pre Honours, 3-4-5: Honours)

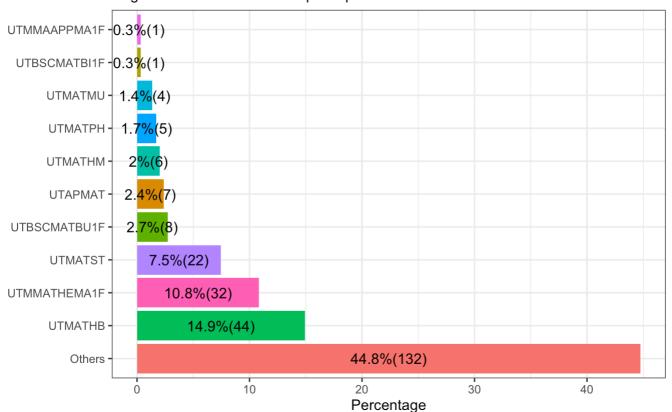
#### Are you an pre-honours or honours student?

Level overview of the participants



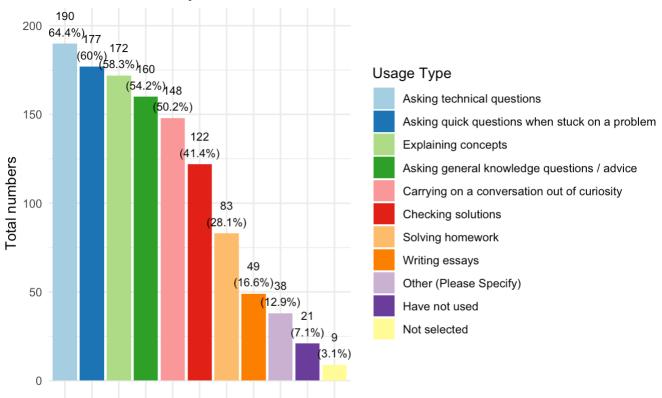
Data Source: SoM GenAl Survey

# Which degree programme are you currently following (UG)? Degree Level overview of the participants



Data Source: SoM GenAl Survey

#### Distribution of Ways How GenAl is Used

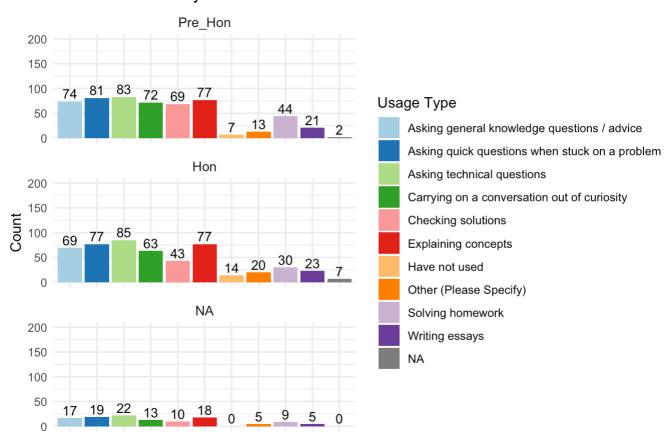


The overall percentages are calculated among all participants.

Note that these items can be selected more than ones

#### Based on pre-Hon and Hon separation

#### Distribution of Ways How GenAl is Used



### 1.2 Survey Key Insight

- Almost all of our students report that they have used genAl to some extent.
- More than half of our students have used genAl for:
  - o asking technical questions ();
  - asking quick questions when stuck on a problem ();
  - explaining concepts (including generating toy examples) ();
  - asking general knowledge questions or advice ().
- Less than half of our students report that they have used genAl for:
  - checking solutions ();
  - solving homework ();
  - writing essays ().
- · Some students mentioned explicitly that they had used genAl tools for
  - coding,
  - o summarising,
  - proofreading,
  - o producing artwork, or
  - simply "messing around with them for fun".

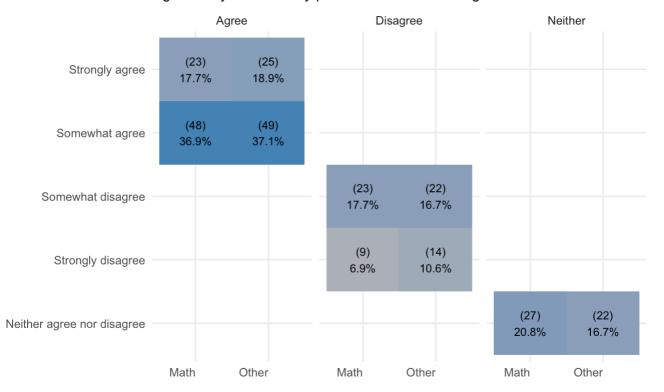
Below, each item response is visually summarized based on the separation of Pre-Hons vs Hons

### 2 Familiarity

• Item 1: I believe advancements in generative AI tools will significantly enhance my personal and academic growth.

#### Familiarity Item 1

I believe advancements in generative AI tools will significantly enhance my personal and academic growth

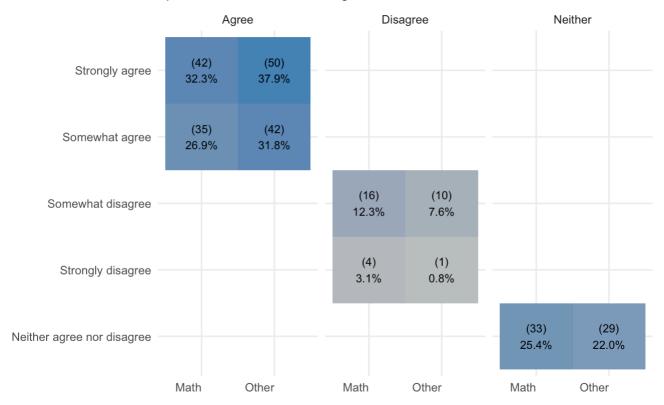


Overall; Agree: %55.3, Disagree: %26, Neither: %18.7

Item 2: I prefer traditional search engines over Generative AI tools for information.

#### Familiarity Item 2

I prefer traditional search engines over Generative AI tools for information.

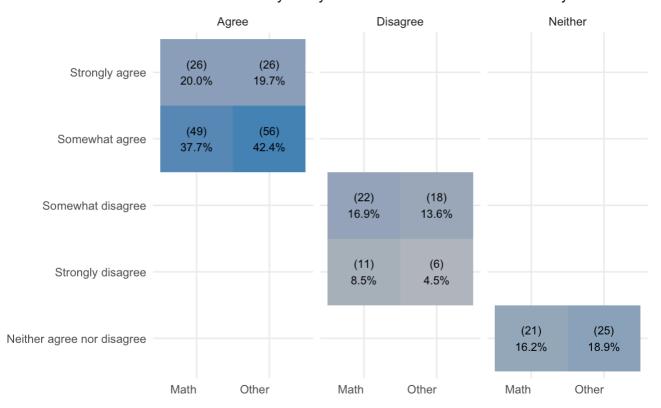


Overall; Agree: %64.5, Disagree: %11.8, Neither: %23.7

#### • Item 3: I am confident in my ability to use Generative AI tools effectively.

#### Familiarity Item 3

I am confident in my ability to use Generative AI tools effectively.

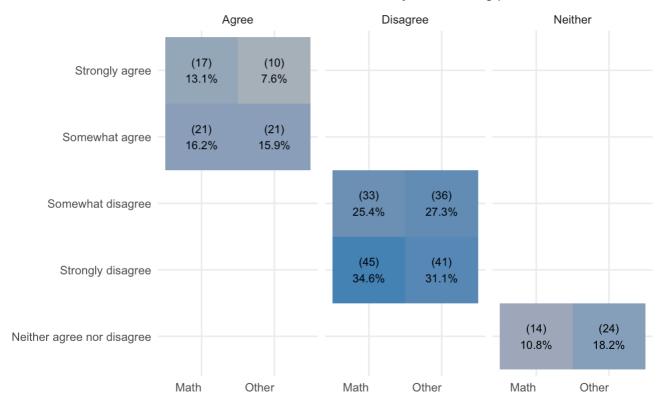


Overall; Agree: %60.4, Disagree: %21.9, Neither: %17.7

• Item 4: Generative AI tools are essential in my self-learning process.

#### Familiarity Item 4

Generative AI tools are essential in my self-learning process.

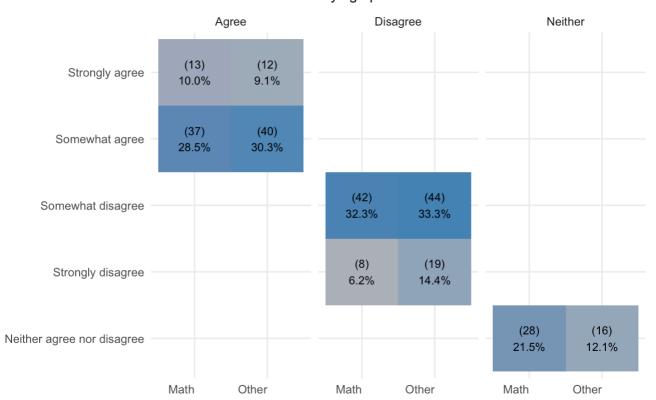


Overall; Agree: %26.3, Disagree: %59.2, Neither: %14.5

• Item 5: I am not concerned with staying updated on Generative AI advancements.

#### Familiarity Item 5

I am not concerned with staying updated on Generative AI advancements.

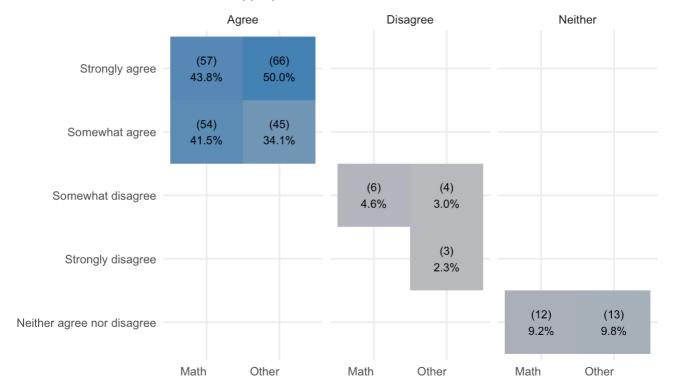


Overall; Agree: %39.4, Disagree: %43.6, Neither: %17

• Item 6: Responses from Generative AI tools often lack reliability and contextual appropriateness.

#### Familiarity Item 6

Responses from Generative AI tools often lack reliability and contextual appropriateness.

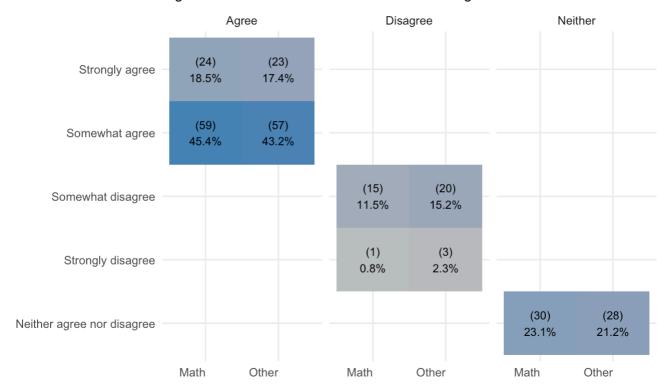


Overall; Agree: %85.4, Disagree: %5, Neither: %9.6

• Item 7: Generative AI tools are accessible and user-friendly, regardless of one's economic or technical background.

#### Familiarity Item 7

Generative AI tools are accessible and user-friendly, regardless of ones economic or technical background.

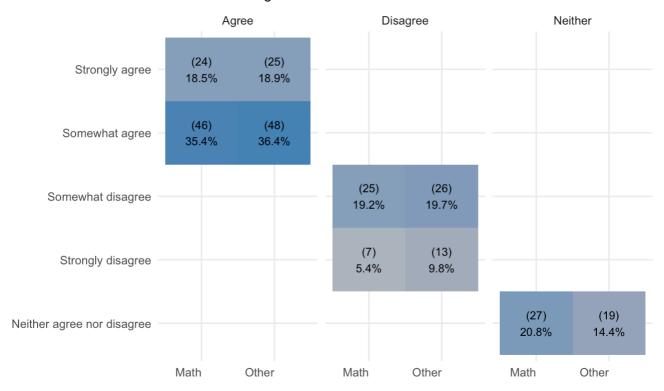


Overall; Agree: %62.7, Disagree: %15, Neither: %22.3

• Item 8: I lack understanding of data security and privacy concerns in using Generative AI tools.

#### Familiarity Item 8

I lack understanding of data security and privacy concerns in using Generative AI tools.



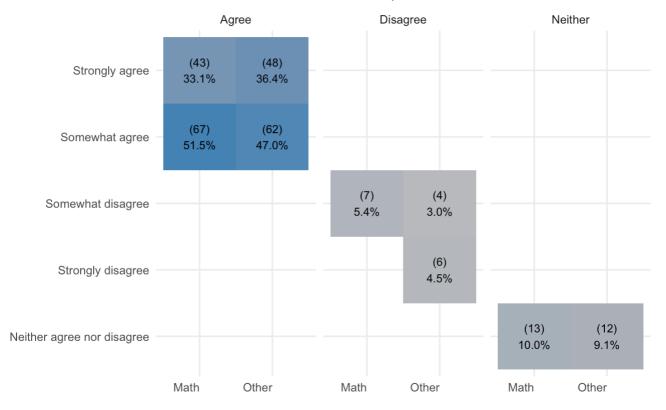
Overall; Agree: %55, Disagree: %27.3, Neither: %17.7

Considered items are given below;

• Item 1: I believe Generative AI tools can help students save time.

#### Benefits and Challenges Item 1

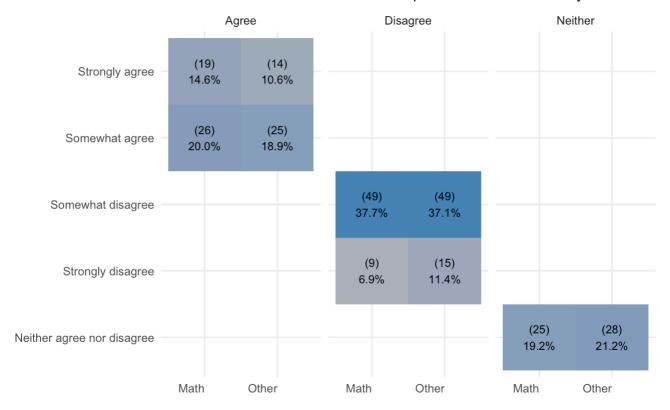
I believe Generative AI tools can help students save time.



Overall; Agree: %84, Disagree: %6.5, Neither: %9.5

• Item 2: I don't think Generative AI tools can help me write more efficiently.

I dont think Generative AI tools can help me write more efficiently.

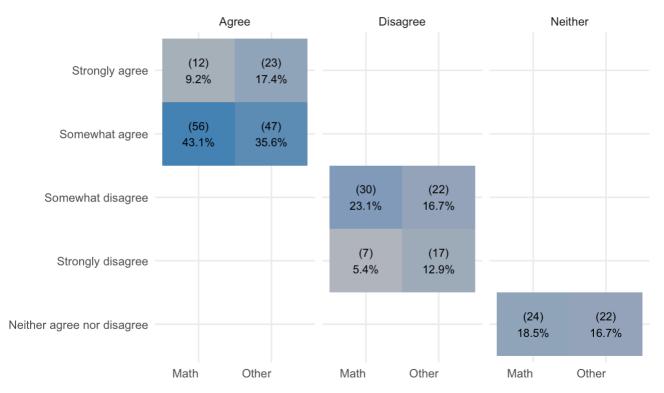


Overall; Agree: %32.4, Disagree: %47.1, Neither: %20.5

• Item 3: I think Generative AI tools can provide me with personalized and immediate feedback.

#### Benefits and Challenges Item 3

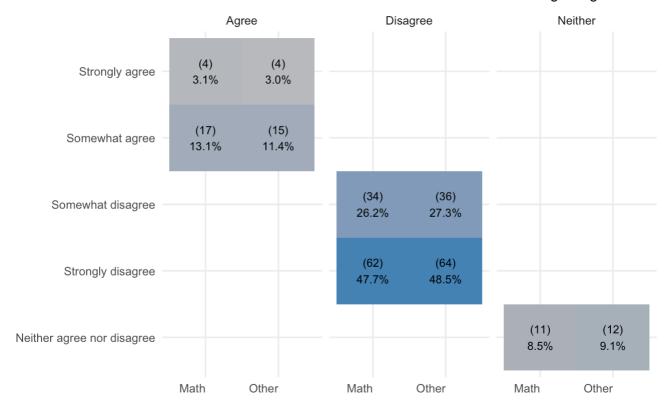
I think Generative AI tools can provide me with personalized and immediate feedback.



Overall; Agree: %53.1, Disagree: %29.2, Neither: %17.7

Item 4: Generative AI tools are as effective as human instructors in guiding coursework.

#### Generative AI tools are as effective as human instructors in guiding coursewo

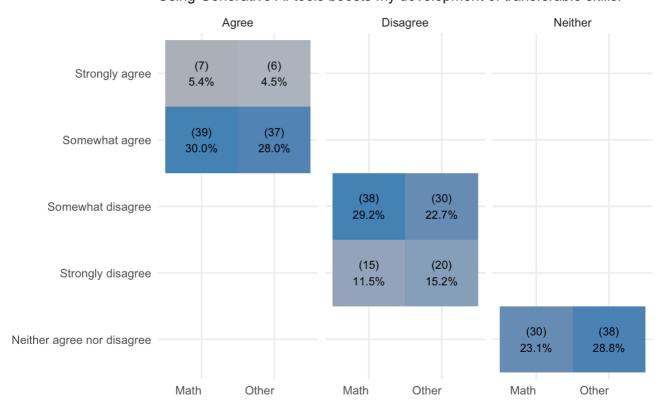


Overall; Agree: %15.4, Disagree: %75.7, Neither: %8.9

• Item 5: Using Generative AI tools boosts my development of transferable skills.

#### Benefits and Challenges Item 5

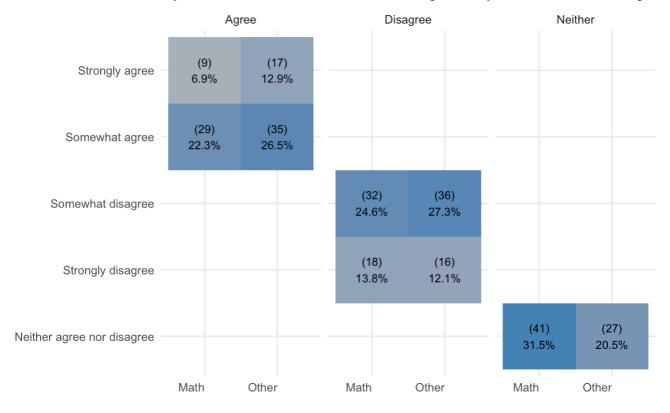
Using Generative AI tools boosts my development of transferable skills.



Overall; Agree: %34.2, Disagree: %39.6, Neither: %26.2

Item 6: My use of Generative AI tools does not significantly involve critical thinking.

My use of Generative AI tools does not significantly involve critical thinking.

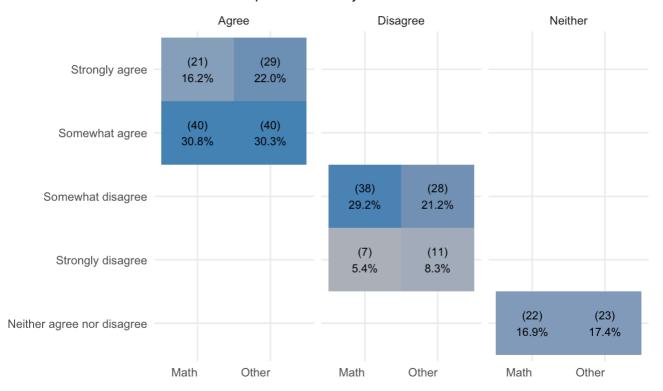


Overall; Agree: %34.6, Disagree: %39.2, Neither: %26.2

#### • Item 7: Generative AI tools provide little assistance in numerical and quantitative subjects.

#### Benefits and Challenges Item 7

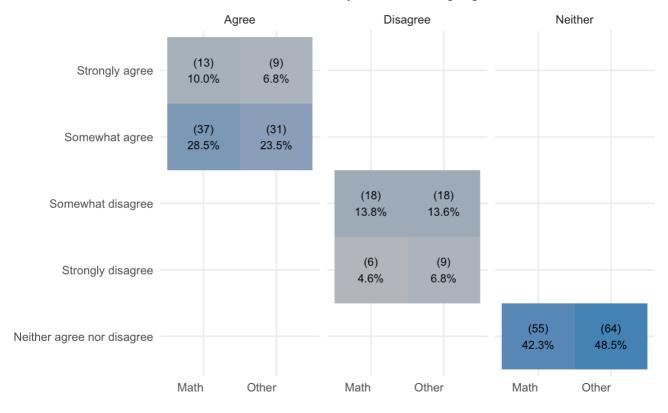
Generative AI tools provide little assistance in numerical and quantitative subjects.



Overall; Agree: %50.2, Disagree: %32.4, Neither: %17.4

• Item 8: Generative AI tools effectively overcome language barriers in education.

Generative AI tools effectively overcome language barriers in education.



Overall; Agree: %34.6, Disagree: %19.6, Neither: %45.8

#### • Item 9: Using Generative AI for homework does not diminish the educational value.

#### Benefits and Challenges Item 9

Using Generative AI for homework does not diminish the educational value.



Overall; Agree: %33.7, Disagree: %46.5, Neither: %19.8

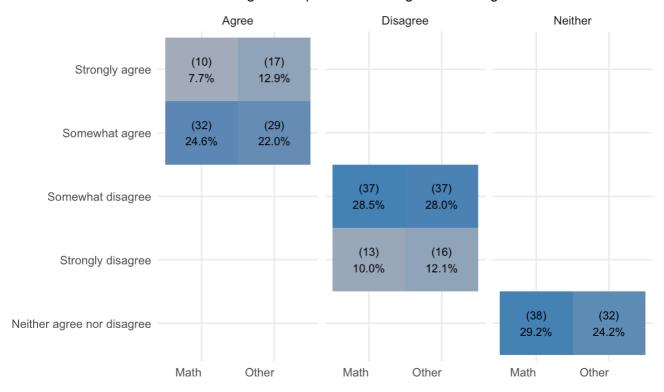
### 4 Future

Considered items given below;

• *Item 1:* The possible integration of Generative AI tools in higher education will have a negative impact on teaching and learning.

#### Future Item 1

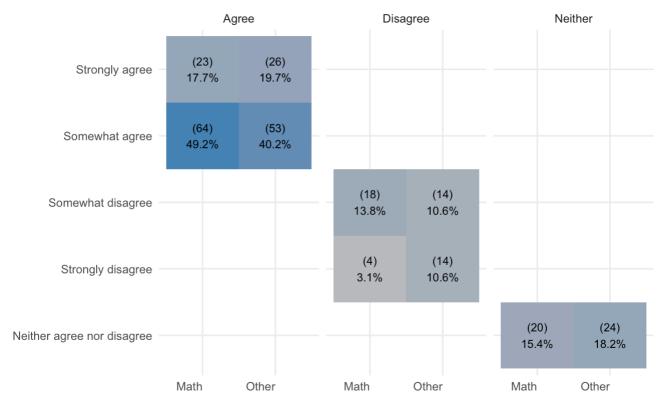
The possible integration of Generative AI tools in higher education will have a negative impact on teaching and learning.



Overall; Agree: %33.7, Disagree: %39.5, Neither: %26.8

• Item 2: The use of Generative AI tools in academic settings should be allowed.

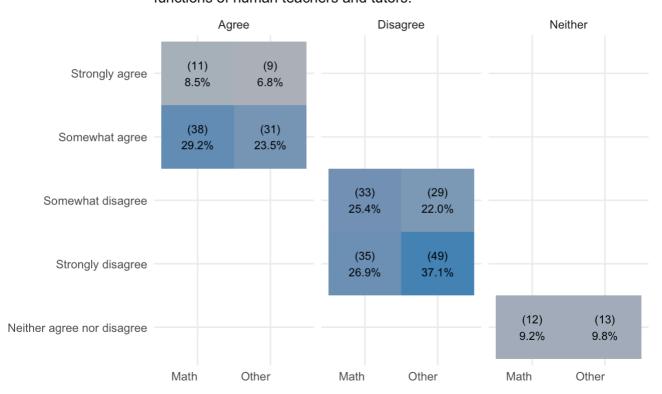
Future Item 2
The use of Generative AI tools in academic settings should be allowed.



Overall; Agree: %63.8, Disagree: %19.2, Neither: %16.9

• Item 3: Generative AI tools could potentially substitute for some functions of human teachers and tutors.

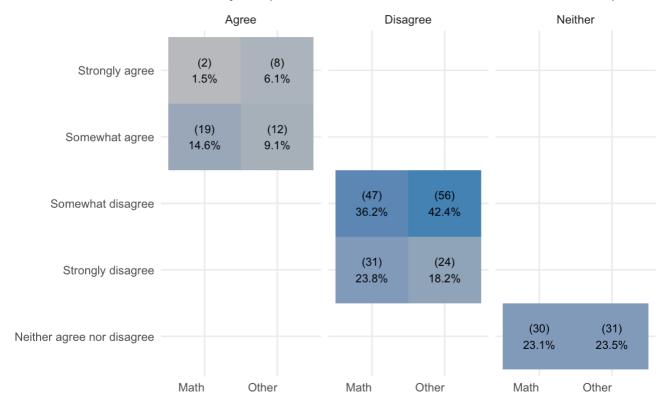
Future Item 3
Generative AI tools could potentially substitute for some functions of human teachers and tutors.



Overall; Agree: %34.2, Disagree: %56.2, Neither: %9.6

• Item 4: It is unlikely that personal Generative AI assistants will become widespread.

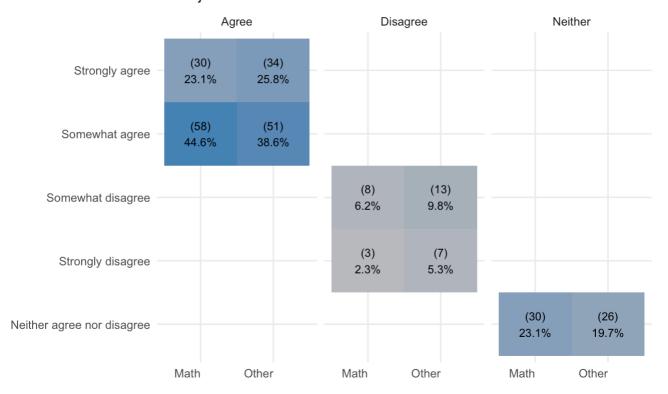
Future Item 4
It is unlikely that personal Generative AI assistants will become widespread.



Overall; Agree: %15.8, Disagree: %60.8, Neither: %23.5

• Item 5: Proficiency in Generative AI tools will be crucial for competitiveness in future job markets.

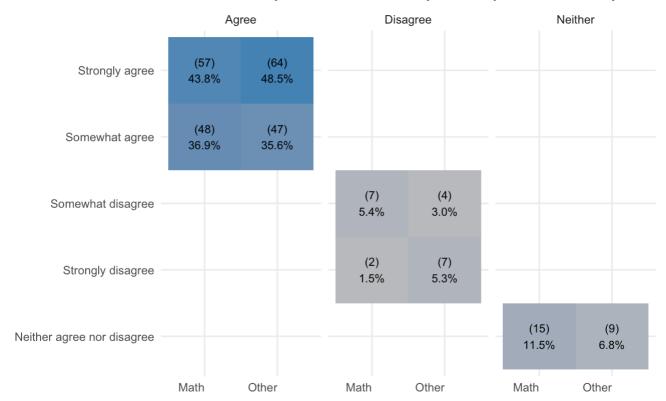
Future Item 5
Proficiency in Generative AI tools will be crucial for competitiveness in future job markets.



Overall; Agree: %66.5, Disagree: %11.9, Neither: %21.5

• Item 6: Al will dramatically influence work, society, and daily life in the next 5 years.

Future Item 6
Al will dramatically influence work, society, and daily life in the next 5 years.



Overall; Agree: %83.1, Disagree: %7.7, Neither: %9.2