Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 2a

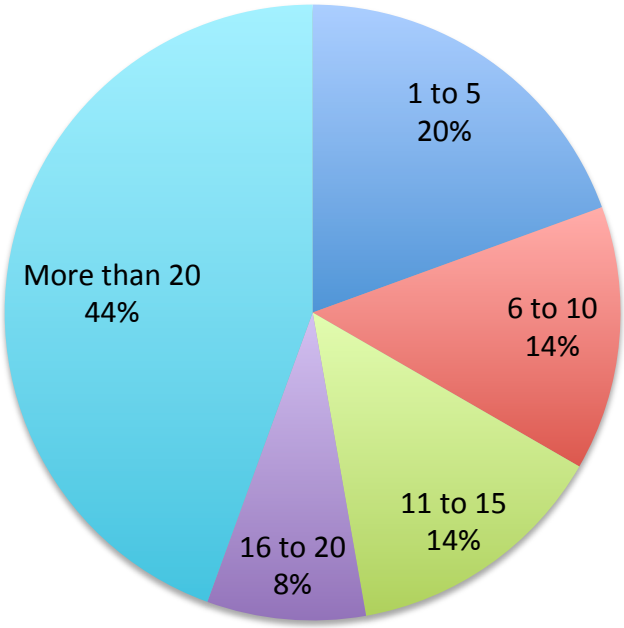
For how many (whole) years have you taught Mathematics? *n = 36*	**TOTALS**	**%**
1 to 5	**7**	**19.4%**
6 to 10	**5**	**13.9%**
11 to 15	**5**	**13.9%**
16 to 20	**3**	**8.3%**
More than 20	**16**	**44.4%**
Total	**36**	**99.9%**

INTERVIEWS

Question 2.6

For how many years did you teach Maths to post-primary students? *n = 7*	**TOTALS**	**%**
1 to 5	**2**	**28.6%**
6 to 10	**0**	**0.0%**
11 to 15	**0**	**0.0%**
16 to 20	**3**	**42.9%**
More than 20	**2**	**28.6%**
Total	**7**	**100.1%**

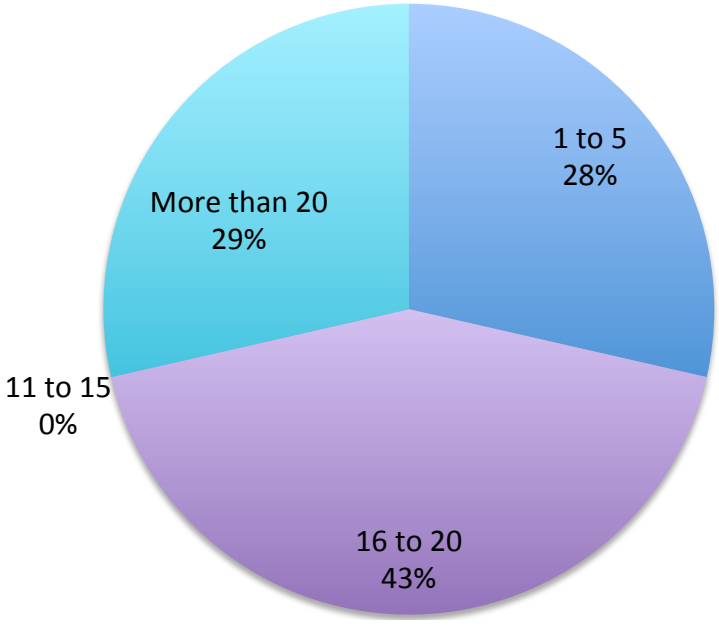
For how many (whole) years have you taught Mathematics?



n = 36

SURVEY

For how many years did you teach Maths to post-primary students?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

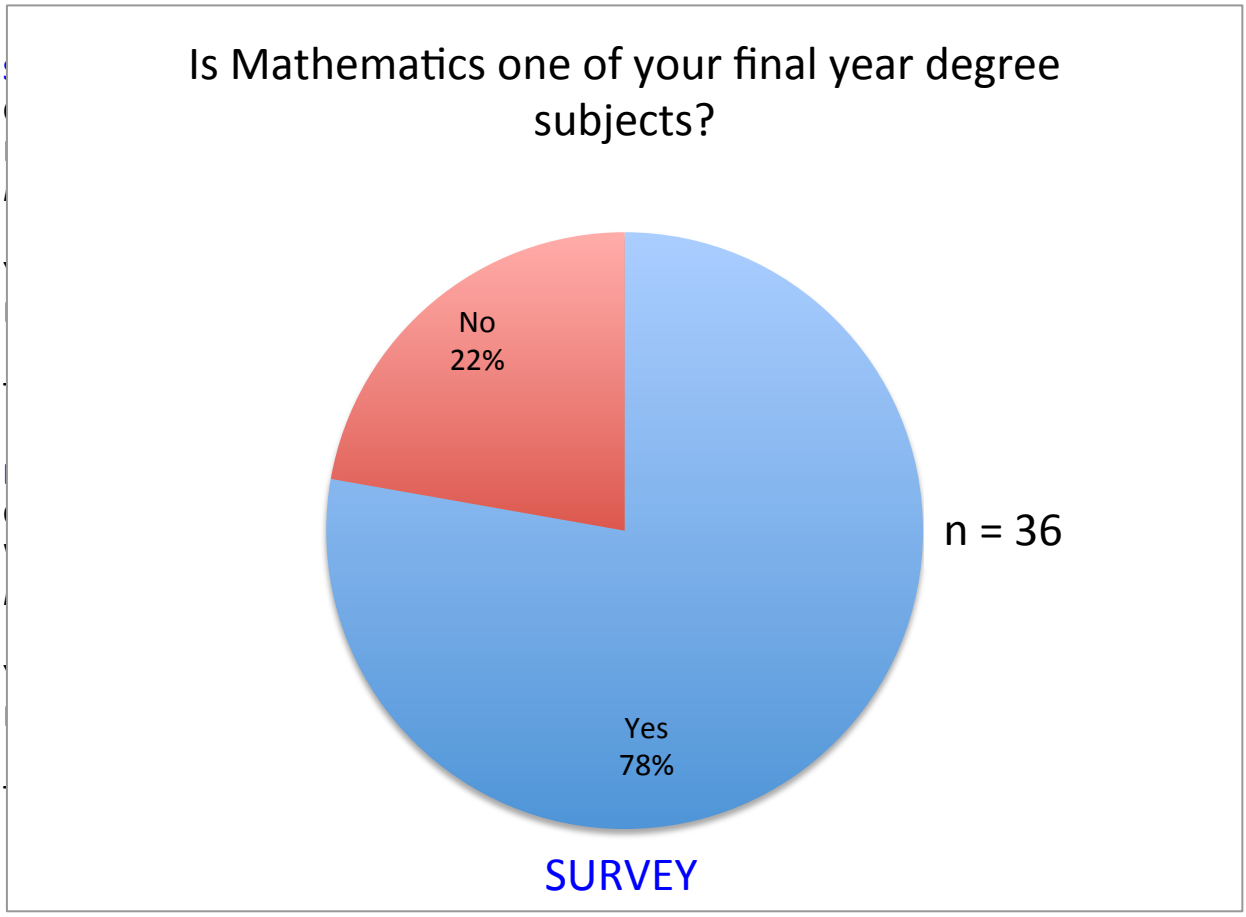
Question 2c

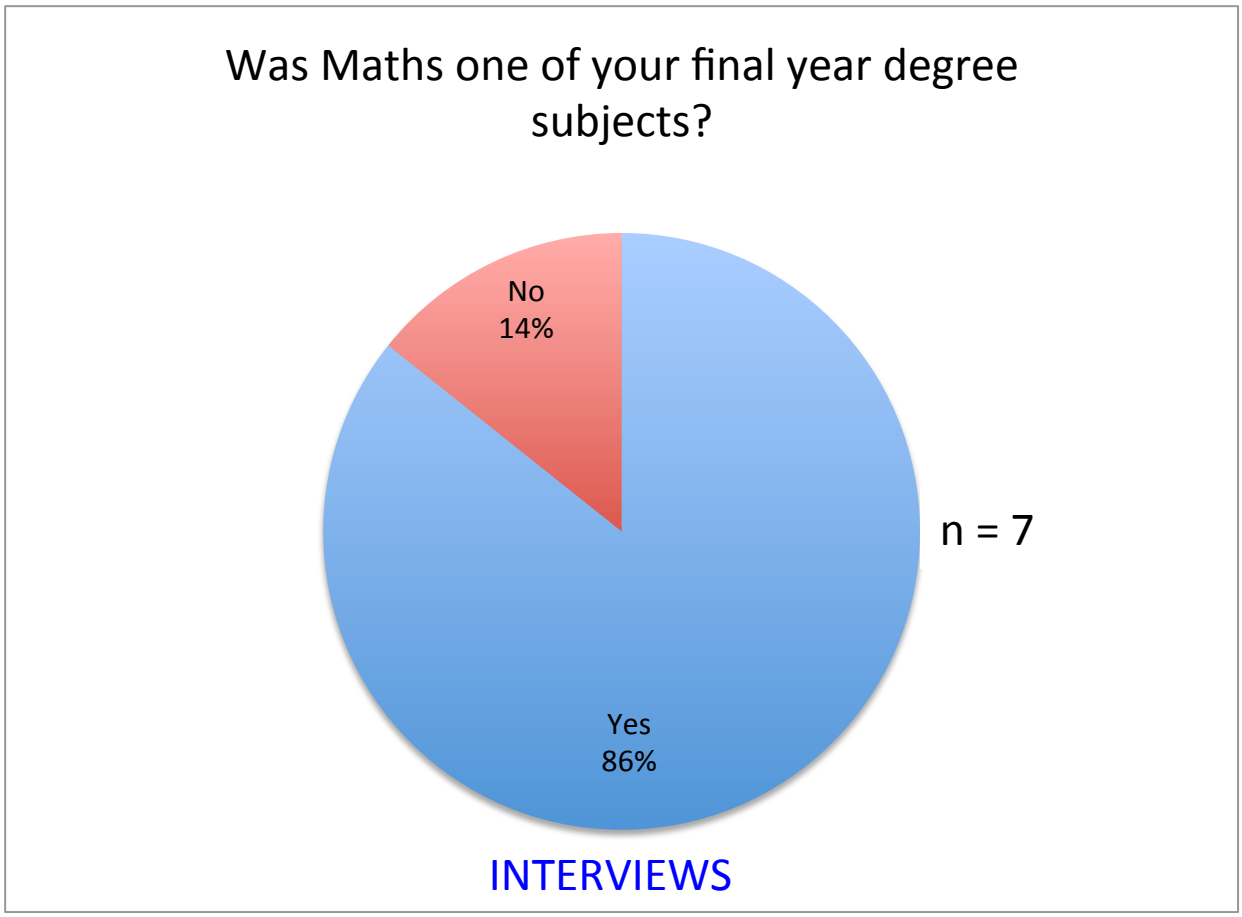
Is Mathematics one of your final year degree subjects? *n = 36*	**TOTALS**	**%**
Yes	**28**	**77.8%**
No	**8**	**22.2%**
Total	**36**	**100.0%**

INTERVIEWS

Question 2.4

Was Maths one of your final year degree subjects? *n = 7*	**TOTALS**	**%**
Yes	**6**	**85.7%**
No	**1**	**14.3%**
Total	**7**	**100.0%**


Is Mathematics one of your final year degree subjects?
No
22%
Yes
78%
n = 36
SURVEY


Was Maths one of your final year degree subjects?
No
14%
Yes
86%
n = 7
INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 3a

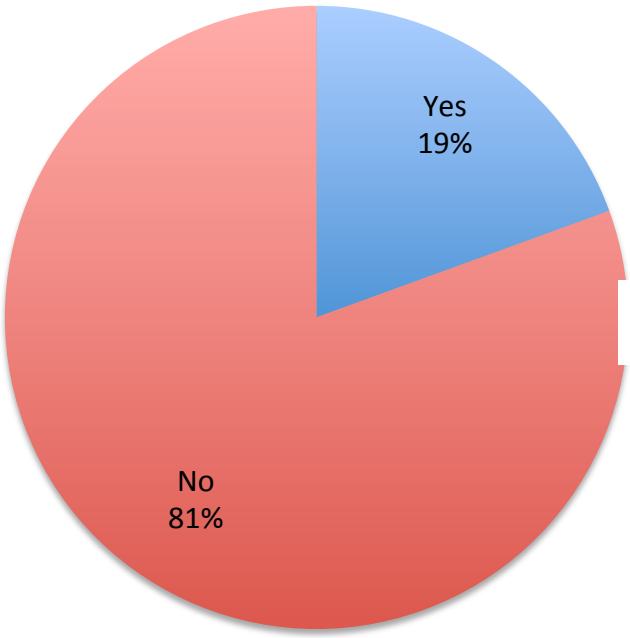
I was aware of the concept of Adaptive Learning prior to this Research Study. *n = 36*	**TOTALS**	**%**
Yes	**7**	**19.4%**
No	**29**	**80.6%**
Total	**36**	**100.0%**

INTERVIEWS

Question 3.1

Were you aware of the concept of adaptive learning prior to this research study? *n = 7*	**TOTALS**	**%**
Yes	**3**	**42.9%**
No	**4**	**57.1%**
Total	**7**	**100.0%**

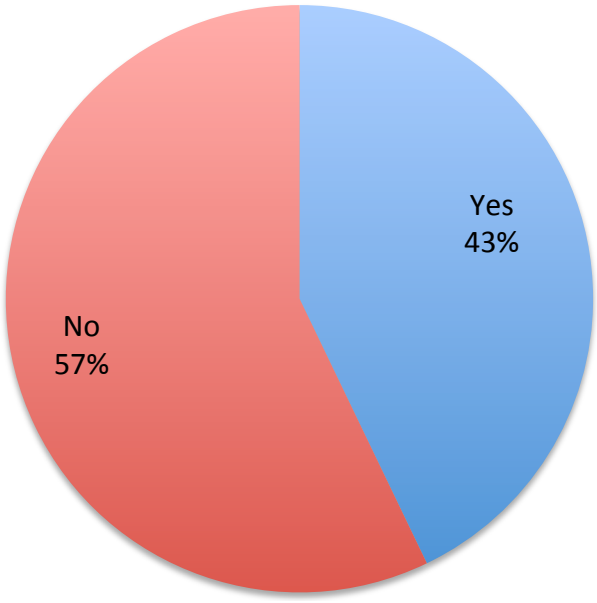
I was aware of the concept of Adaptive Learning prior to this Research Study.



n = 36

SURVEY

Were you aware of the concept of adaptive learning prior to this research study?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 3b

I understood the concept of Adaptive Learning prior to this Research Study.

n = 36

	TOTALS	%
Agree	**4**	**11.1%**
Neutral	**12**	**33.3%**
Disagree	**20**	**55.6%**
Total	**36**	**100.0%**

INTERVIEWS

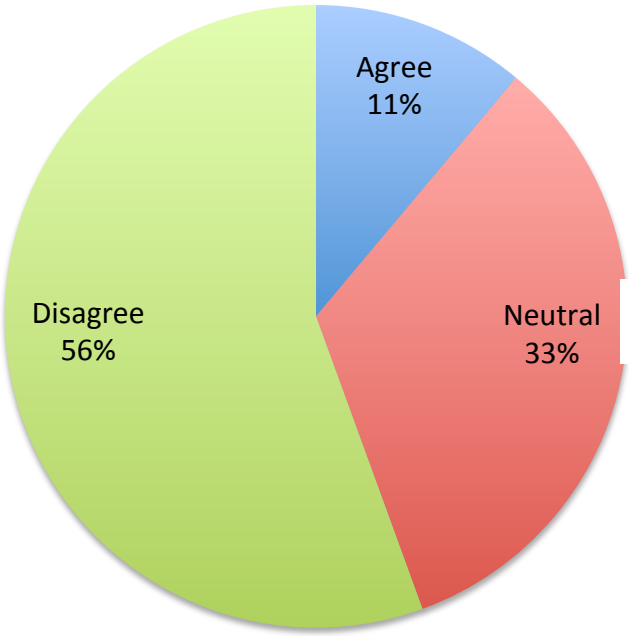
Question 3.2

Did you understand the concept of adaptive learning prior to this Research Study?

n = 7

	TOTALS	%
Agree	**2**	**28.6%**
Neutral	**1**	**14.3%**
Disagree	**4**	**57.1%**
Total	**7**	**100.0%**

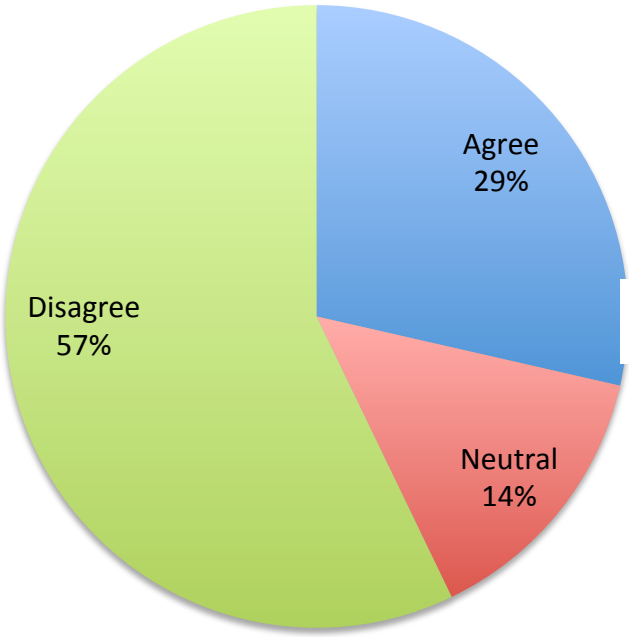
I understood the concept of Adaptive Learning prior to this Research Study.



n = 36

SURVEY

Did you understand the concept of adaptive learning prior to this Research Study?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 3c

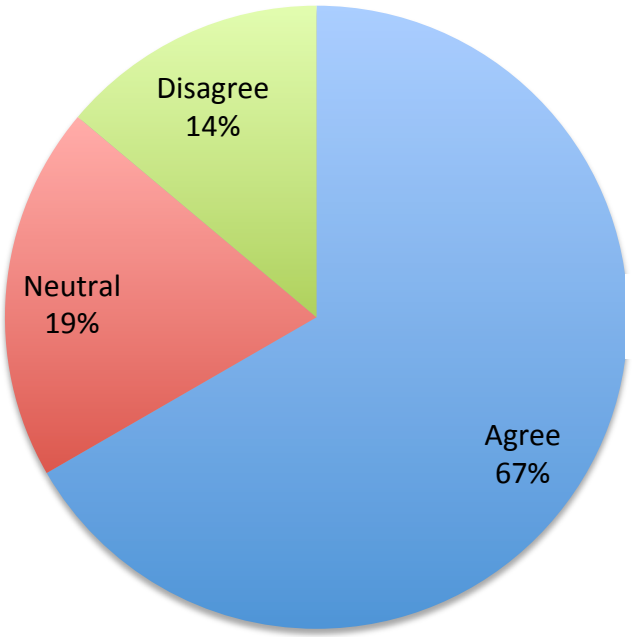
I understand the concept of Adaptive Learning having watched Screencast (Part 1 of 3). *n = 36*	**TOTALS**	**%**
Agree	**24**	**66.7%**
Neutral	**7**	**19.4%**
Disagree	**5**	**13.9%**
Total	**36**	**100.0%**

INTERVIEWS

Question 3.3

Did my Screencast help you understand the concept of adaptive learning? *n = 7*	**TOTALS**	**%**
Agree	**6**	**85.7%**
Neutral	**0**	**0.0%**
Disagree	**1**	**14.3%**
Total	**7**	**100.0%**

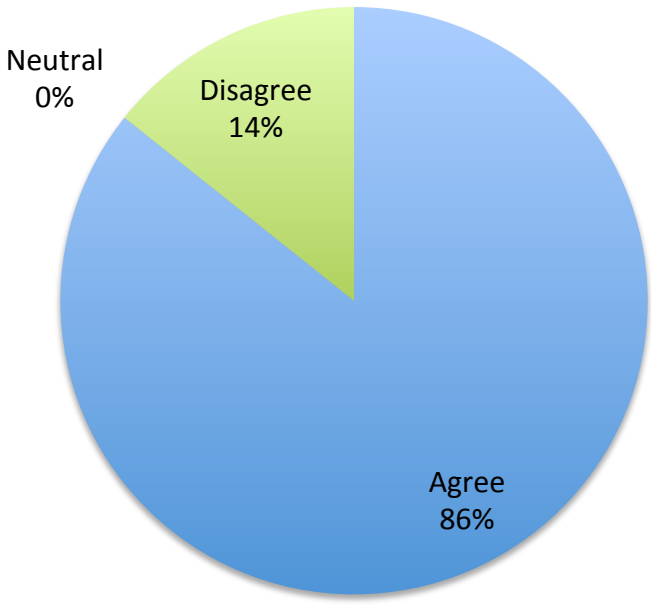
Did my Screencast help you understand the concept of adaptive learning?



n = 36

SURVEY

Did my Screencast help you understand the concept of adaptive learning?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 4a

I was aware of the idea of a Domain Model prior to this Research Study.

n = 36

	TOTALS	%
Yes	**9**	**25.0%**
No	**27**	**75.0%**
Total	**36**	**100.0%**

INTERVIEWS

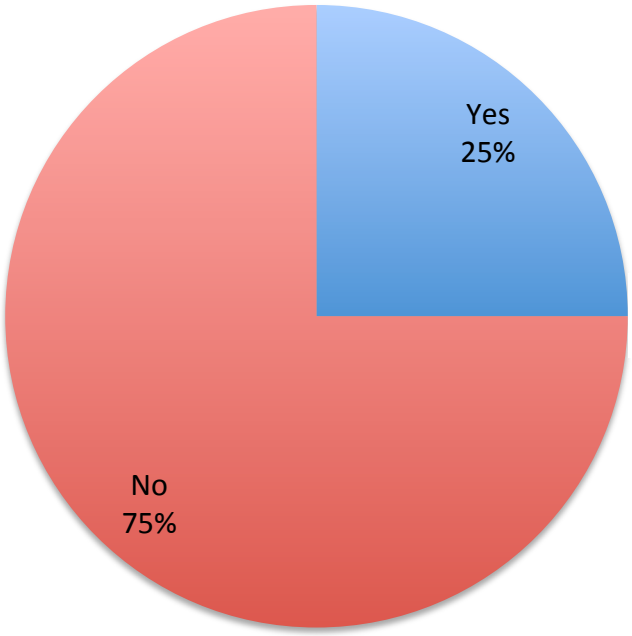
Question 4.1

Were you aware of the concept of a domain model prior to this research study?

n = 7

	TOTALS	%
Yes	**2**	**28.6%**
No	**5**	**71.4%**
Total	**7**	**100.0%**

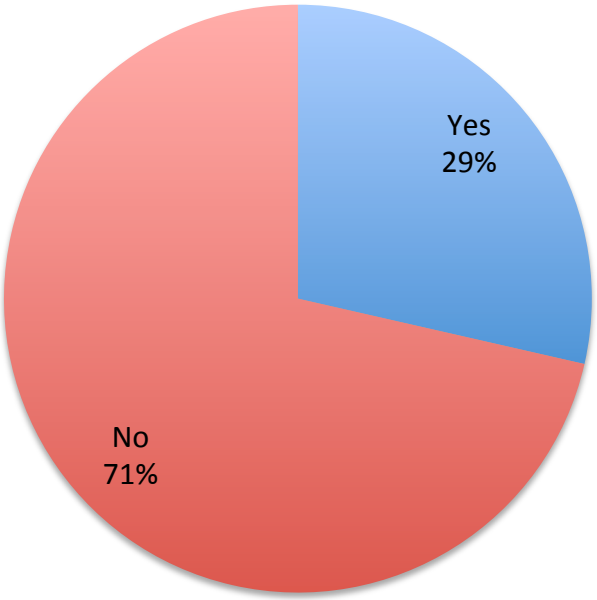
I was aware of the idea of a Domain Model prior to this Research Study.



n = 36

SURVEY

Were you aware of the concept of a domain model prior to this research study?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 4b

I understood the idea of a Domain Model prior to this Research Study.

n = 36

	TOTALS	%
Agree	**8**	**22.2%**
Neutral	**10**	**27.8%**
Disagree	**18**	**50.0%**
Total	**36**	**100.0%**

INTERVIEWS

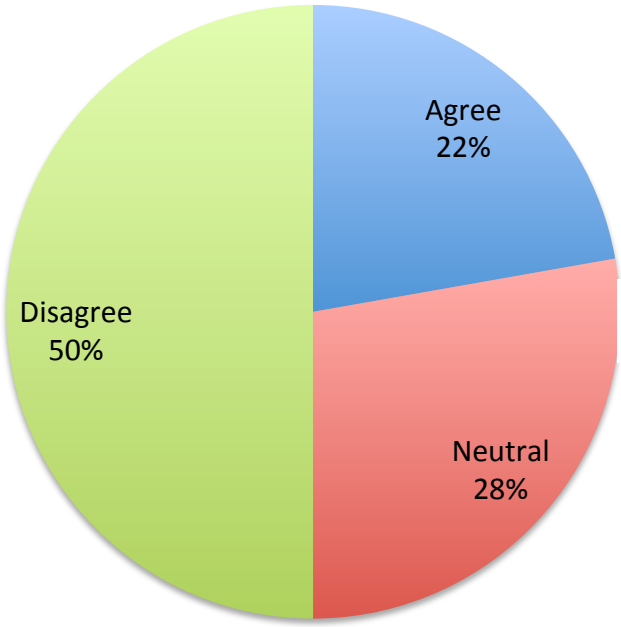
Question 4.2

Did you understand the concept of a domain model prior to this research study?

n = 7

	TOTALS	%
Agree	**1**	**14.3%**
Neutral	**1**	**14.3%**
Disagree	**5**	**71.4%**
Total	**7**	**100.0%**

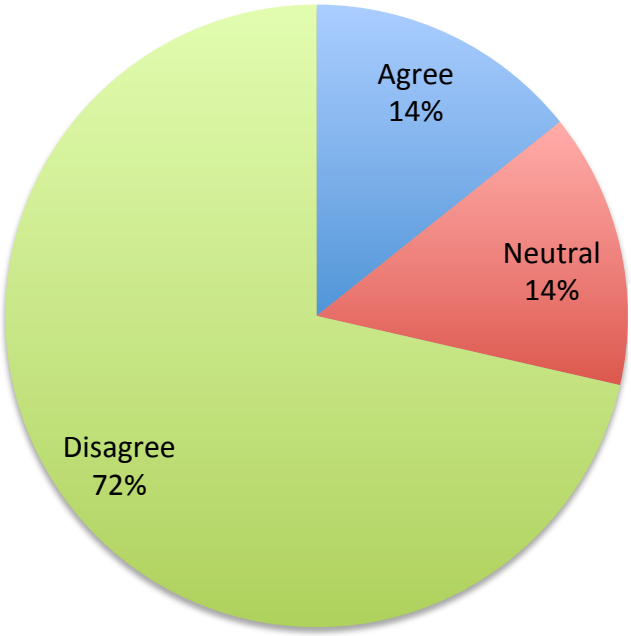
I understood the idea of a Domain Model prior to this Research Study.



n = 36

SURVEY

Did you understand the concept of a domain model prior to this research study?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 4c

I understand the idea of a Domain Model having watched Screencast (Part 1 of 3).

n = 36

	TOTALS	%
Agree	**25**	**69.4%**
Neutral	**7**	**19.4%**
Disagree	**4**	**11.1%**
Total	**36**	**99.9%**

INTERVIEWS

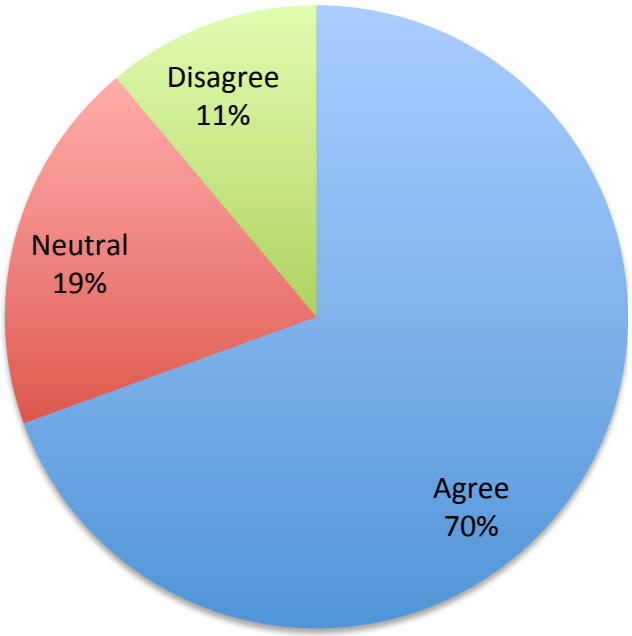
Question 4.3

Did my screencast help you understand the concept of a domain model?

n = 7

	TOTALS	%
Agree	**6**	**85.7%**
Neutral	**1**	**14.3%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

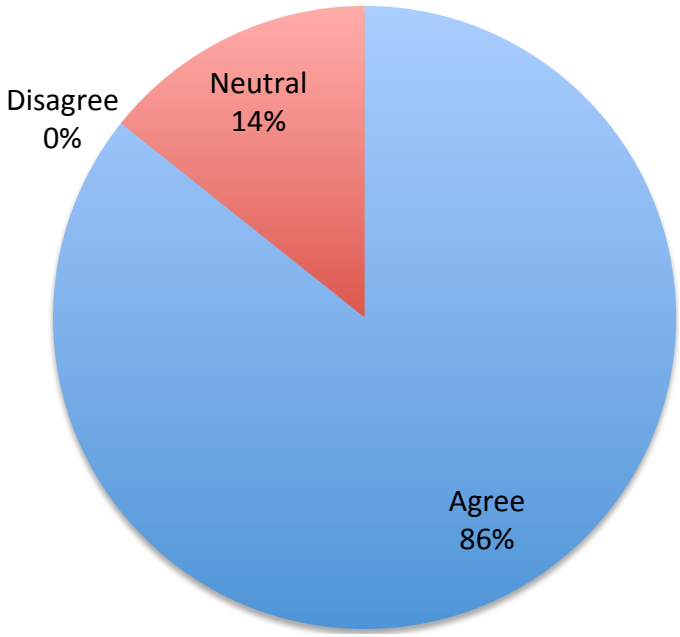
Did my screencast help you understand the concept of a domain model?



n = 36

SURVEY

Did my screencast help you understand the concept of a domain model?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 5a

The Learning Outcomes in the Mathematics Syllabus should be the main data source for a Domain Model.

n = 36

	TOTALS	%
Agree	**32**	**88.9%**
Neutral	**3**	**8.3%**
Disagree	**1**	**2.8%**
Total	**36**	**100.0%**

INTERVIEWS

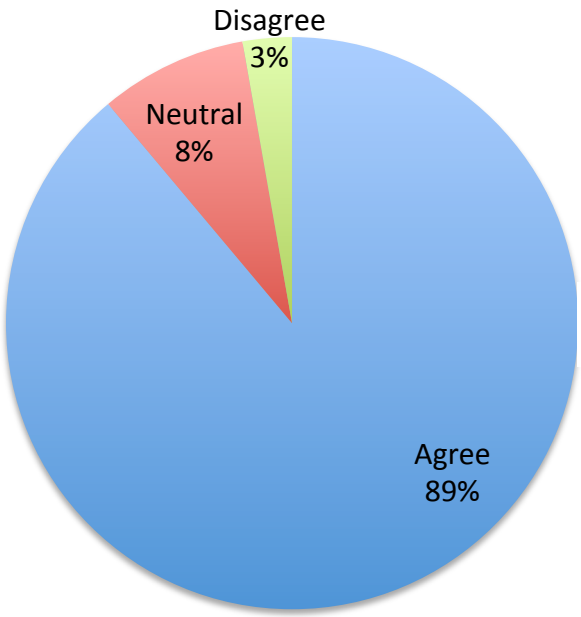
Question 5.1

Do you think that the learning outcomes in the mathematics syllabus should be the principal data source for a domain model?

n = 7

	TOTALS	%
Agree	**5**	**71.4%**
Neutral	**1**	**14.3%**
Disagree	**1**	**14.3%**
Total	**7**	**100.0%**

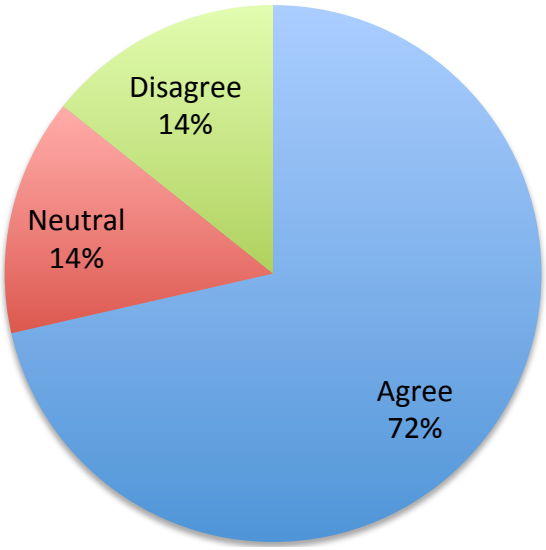
The Learning Outcomes in the Mathematics Syllabus should be the main data source for a Domain Model.



n = 36

SURVEY

Do you think that the learning outcomes in the mathematics syllabus should be the principal data source for a domain model?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 5b

I understand the unpacking process from 6 to 45 Learning Outcomes having watched Screencast (Part 2 of 3).
n = 36

	TOTALS	%
Agree	**34**	**94.4%**
Neutral	**2**	**5.6%**
Disagree	**0**	**0.0%**
Total	**36**	**100.0%**

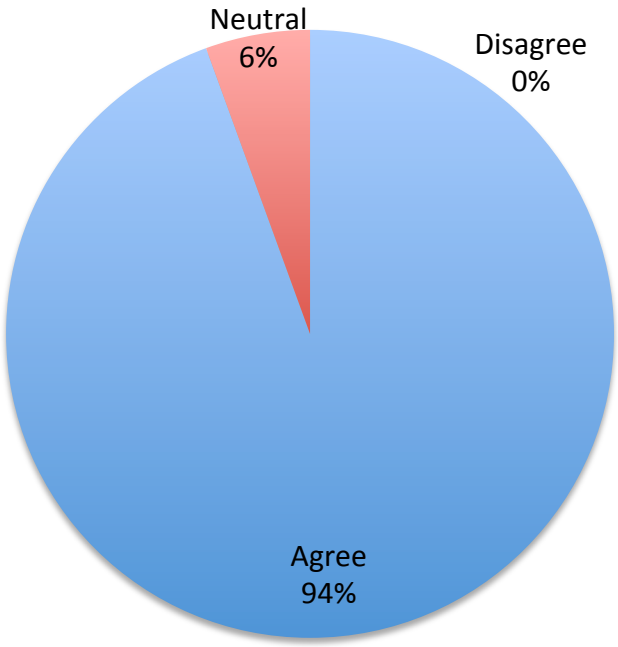
INTERVIEWS

Question 5.3

Having watched the screencast, did you understand the unpacking process from the 8 learning outcomes in the Draft Specification to the 45 learning outcomes created by me?
n = 7

	TOTALS	%
Agree	**7**	**100.0%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

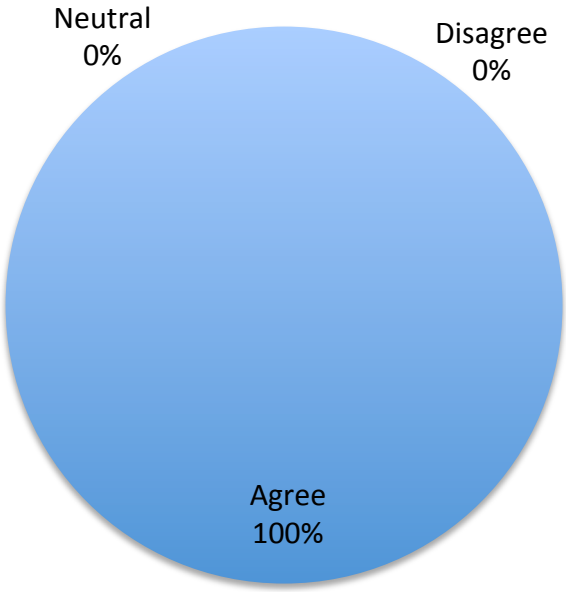
I understand the unpacking process from 6 to 45 Learning Outcomes having watched Screencast (Part 2 of 3).



n = 36

SURVEY

Having watched the screencast, did you understand the unpacking process from the 8 learning outcomes in the Draft Specification to the 45 learning outcomes created by me?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 5c

Which set of Learning Outcomes would you prefer in the New Syllabus?
n = 36

	TOTALS	%
Small number (6) - packed, with long text descriptions	**10**	**27.8%**
Larger number (45) - unpacked, with short text descriptions	**26**	**72.2%**
Total	**36**	**100.0%**

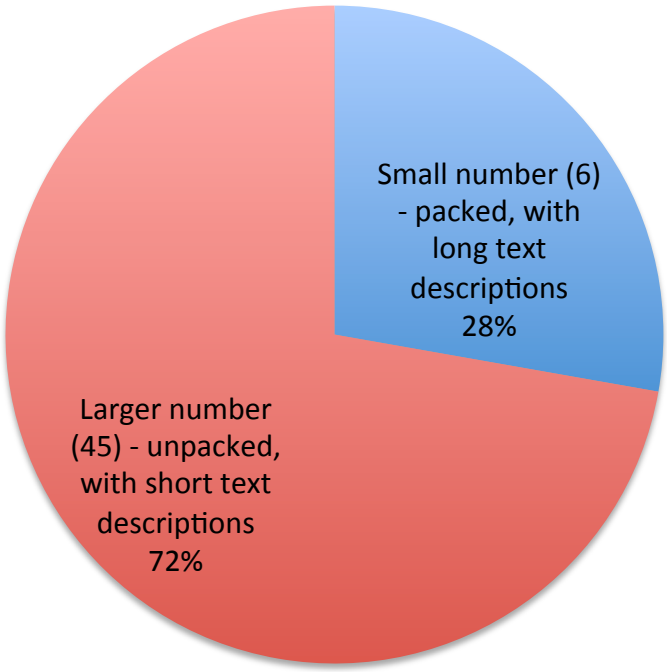
INTERVIEWS

Question 5.4

Which set of learning outcomes do you think will be more beneficial for the teaching, learning and assessment of Junior Cycle Mathematics?
n = 7

	TOTALS	%
Small number (6) - packed, with long text descriptions	**0**	**0.0%**
Larger number (45) - unpacked, with short text descriptions	**4**	**57.1%**
Neutral	**3**	**42.9%**
Total	**7**	**100.0%**

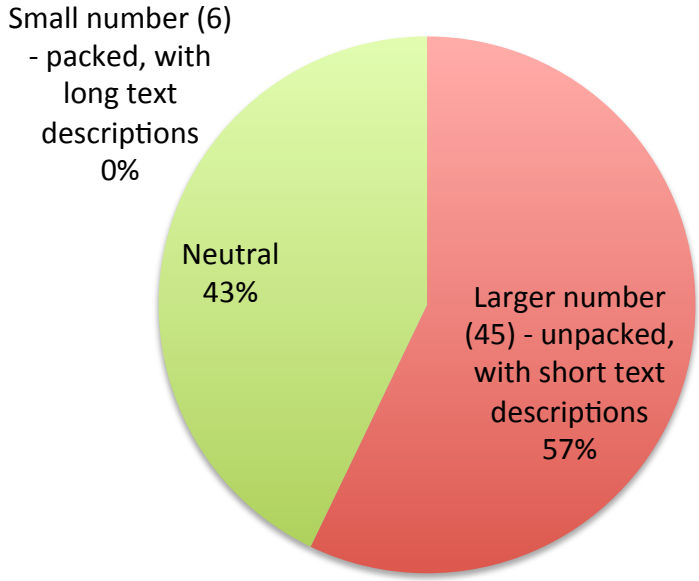
Which set of Learning Outcomes would you prefer in the New Syllabus?



n = 36

SURVEY

Which set of learning outcomes do you think will be more beneficial for the teaching, learning and assessment of Junior Cycle Mathematics?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 6a

The visual display for this Domain Model is easy to understand. (GAM Authoring Tool).

n = 36

	TOTALS	%
Strongly Agree	**4**	**11.1%**
Agree	**18**	**50.0%**
Neutral	**6**	**16.7%**
Disagree	**7**	**19.4%**
Strongly Disagree	**1**	**2.8%**
Total	**36**	**100.0%**

INTERVIEWS

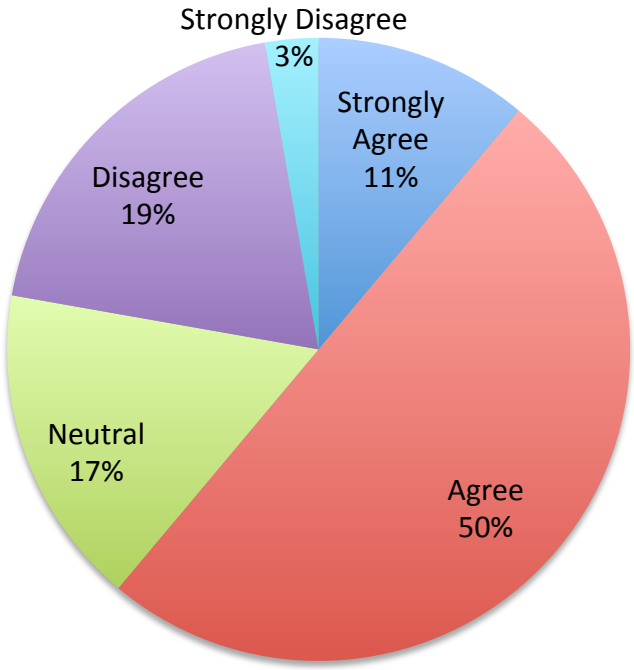
Question 6.1

Do you think that the visual display for this version of the domain model is easy to understand? (GAM Authoring Tool).

n = 7

	TOTALS	%
Agree	**6**	**85.7%**
Neutral	**1**	**14.3%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

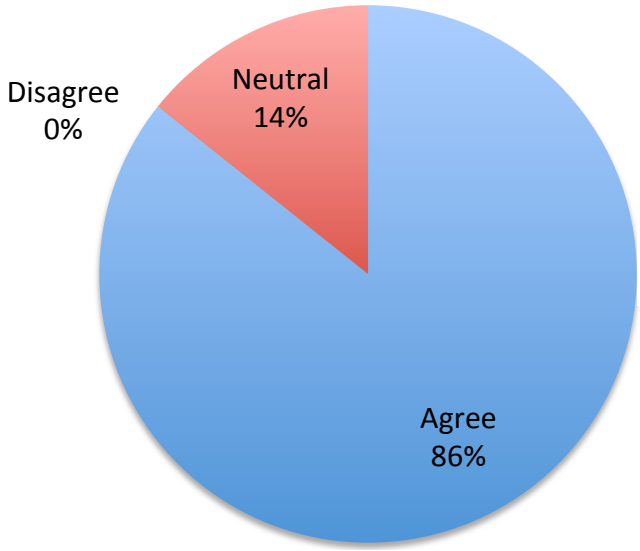
The visual display for this Domain Model is easy to understand. (GAM Authoring Tool).



n = 7

SURVEY

Do you think that the visual display for this version of the domain model is easy to understand? (GAM Authoring Tool).



n = 36

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 6b

The concepts in this Domain Model are correctly sequenced. (GAM Authoring Tool).

n = 36

	TOTALS	%
Strongly Agree	**5**	**13.9%**
Agree	**23**	**63.9%**
Neutral	**6**	**16.7%**
Disagree	**2**	**5.6%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.1%**

INTERVIEWS

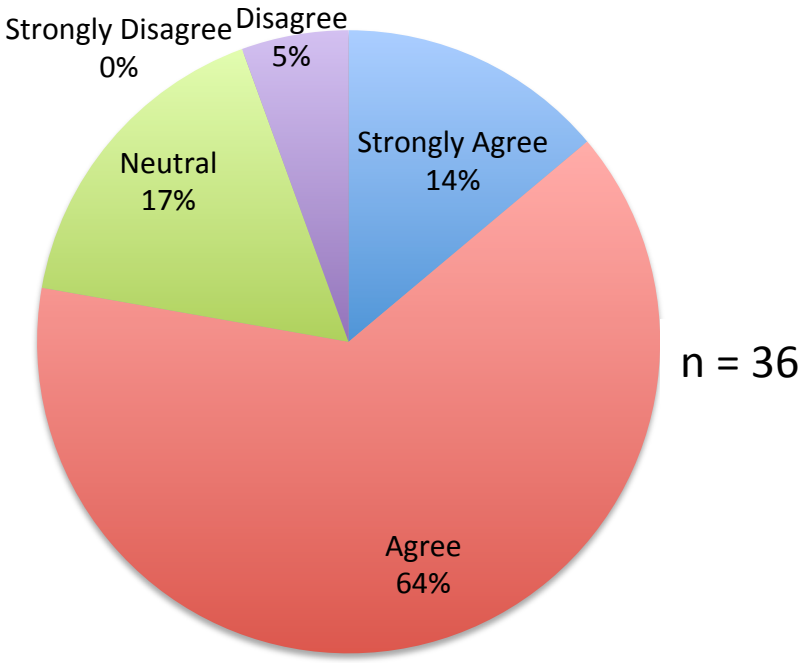
Question 6.2

Do you think that the concepts in this version of the domain model are correctly sequenced? (GAM Authoring Tool).

n = 7

	TOTALS	%
Agree	**6**	**85.7%**
Neutral	**1**	**14.3%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

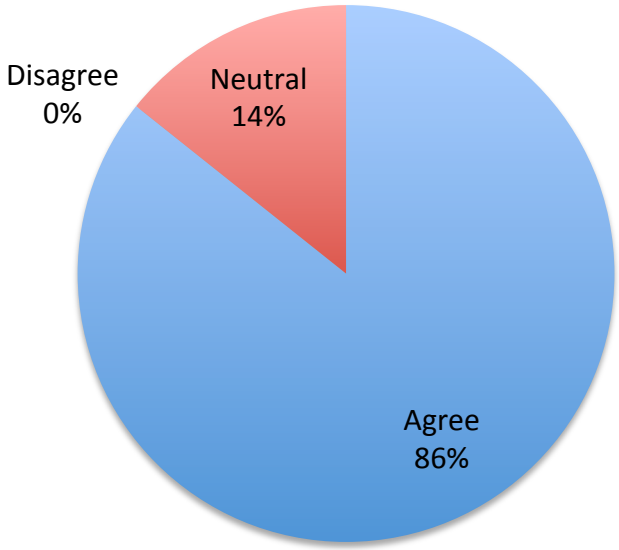
The concepts in this Domain Model are correctly sequenced. (GAM Authoring Tool).



n = 36

SURVEY

Do you think that the concepts in this version of the domain model are correctly sequenced? (GAM Authoring Tool).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 6c

The concepts in this Domain Model are correctly connected. (GAM Authoring Tool).

n = 36

	TOTALS	%
Strongly Agree	**7**	**19.4%**
Agree	**20**	**55.6%**
Neutral	**8**	**22.2%**
Disagree	**1**	**2.8%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.0%**

INTERVIEWS

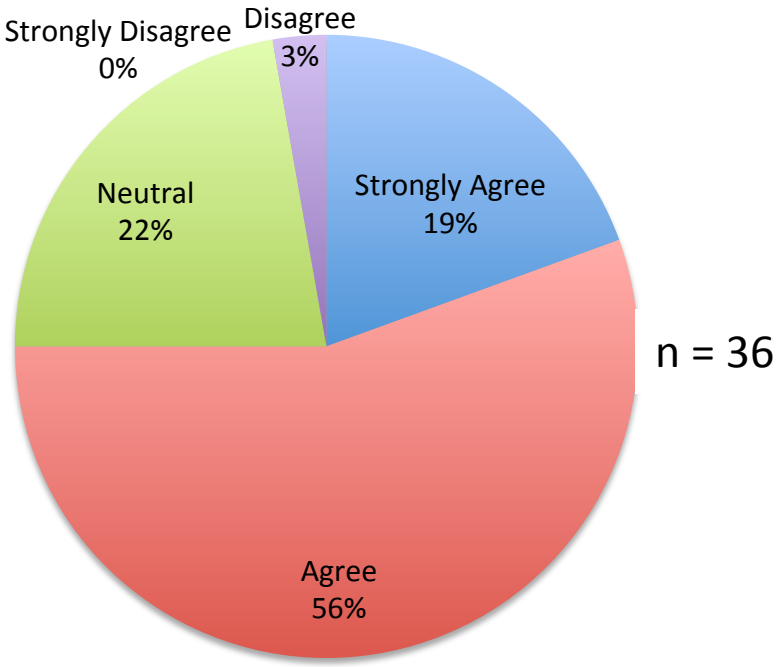
Question 6.3

Do you think that the concepts in this version of the domain model are correctly connected? (GAM Authoring Tool).

n = 7

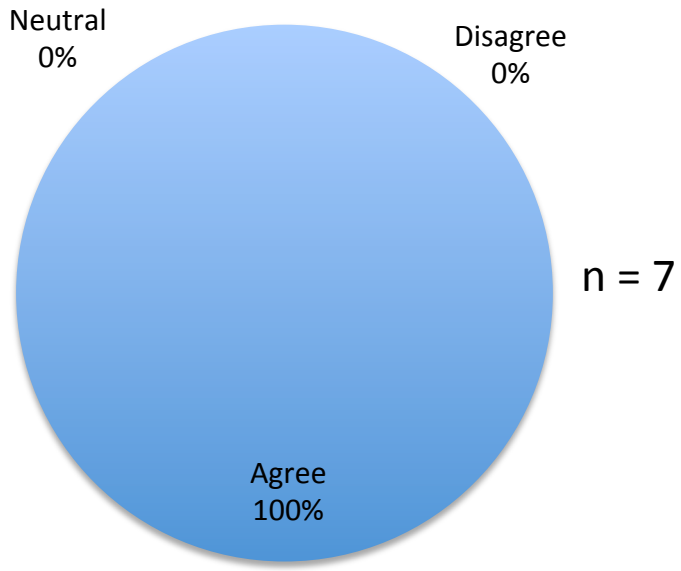
	TOTALS	%
Agree	**7**	**100.0%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

The concepts in this Domain Model are correctly connected. (GAM Authoring Tool).



SURVEY

Do you think that the concepts in this version of the domain model are correctly connected? (GAM Authoring Tool).



INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 7a

The visual display for this Domain Model is easy to understand. (Mindomo Organigram 1).

n = 36

	TOTALS	%
Strongly Agree	**12**	**33.3%**
Agree	**19**	**52.8%**
Neutral	**5**	**13.9%**
Disagree	**0**	**0.0%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.0%**

INTERVIEWS

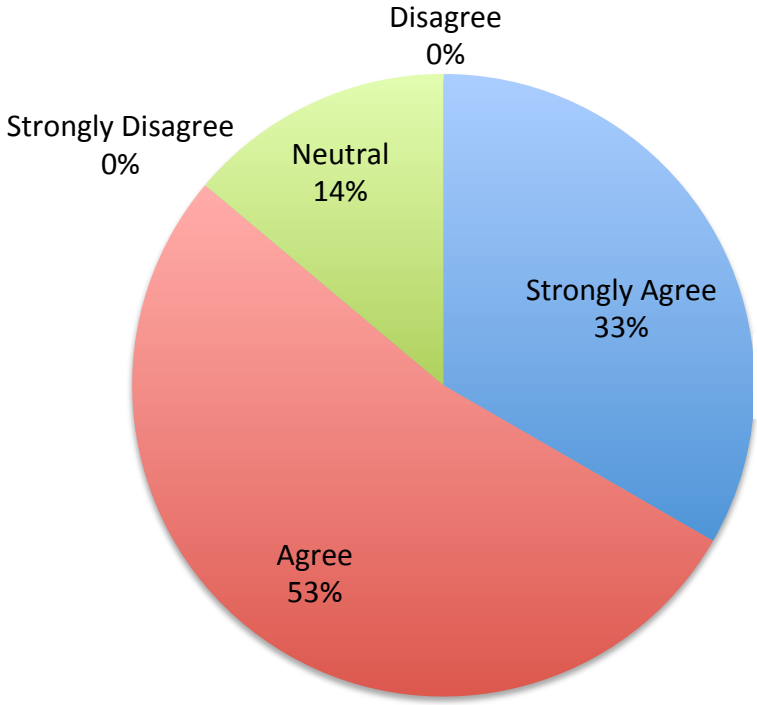
Question 8.1

Do you think that the visual display for this version of the domain model is easy to understand? (Mindomo Organigram 1).

n = 7

	TOTALS	%
Agree	**7**	**100.0%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

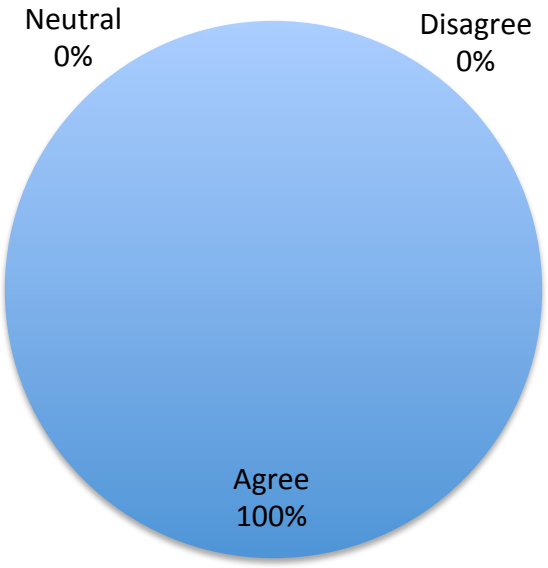
The visual display for this Domain Model is easy to understand. (Mindomo Organigram 1).



n = 36

SURVEY

Do you think that the visual display for this version of the domain model is easy to understand? (Mindomo Organigram 1).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 8a

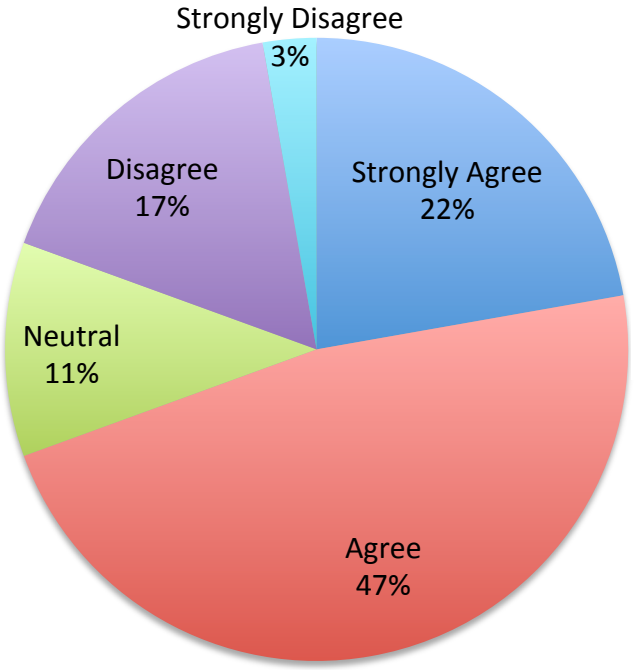
The visual display for this Domain Model is easy to understand. (Mindc *n = 36*	**TOTALS**	**%**
Strongly Agree	**8**	**22.2%**
Agree	**17**	**47.2%**
Neutral	**4**	**11.1%**
Disagree	**6**	**16.7%**
Strongly Disagree	**1**	**2.8%**
Total	**36**	**100.0%**

INTERVIEWS

Question 7.1b

Do you think that the visual display for this version of the domain model is easy to understand? (Mindomo Organigram 2). *n = 7*	**TOTALS**	**%**
Agree	**6**	**85.7%**
Neutral	**1**	**14.3%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

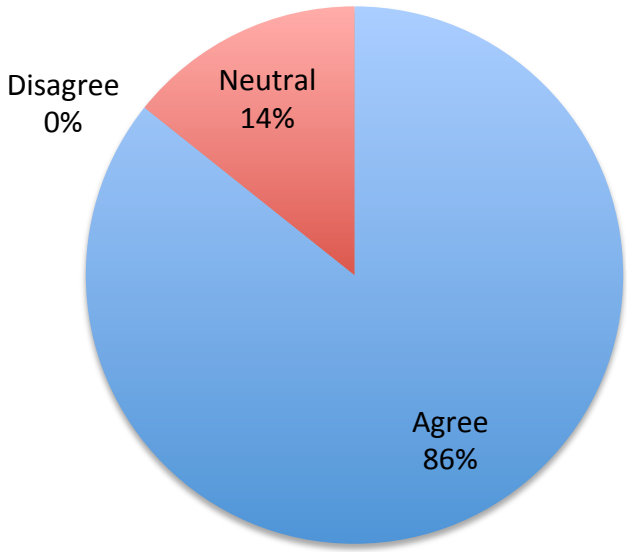
The visual display for this Domain Model is easy to understand. (Mindomo Organigram 2).



n = 36

SURVEY

Do you think that the visual display for this version of the domain model is easy to understand? (Mindomo Organigram 2).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 9a

This matrix of Topics and Learning Outcomes is easy to understand. (Rhumbl Spreadsheet).

n = 36

	TOTALS	%
Strongly Agree	**3**	**8.3%**
Agree	**18**	**50.0%**
Neutral	**7**	**19.4%**
Disagree	**7**	**19.4%**
Strongly Disagree	**1**	**2.8%**
Total	**36**	**99.9%**

INTERVIEWS

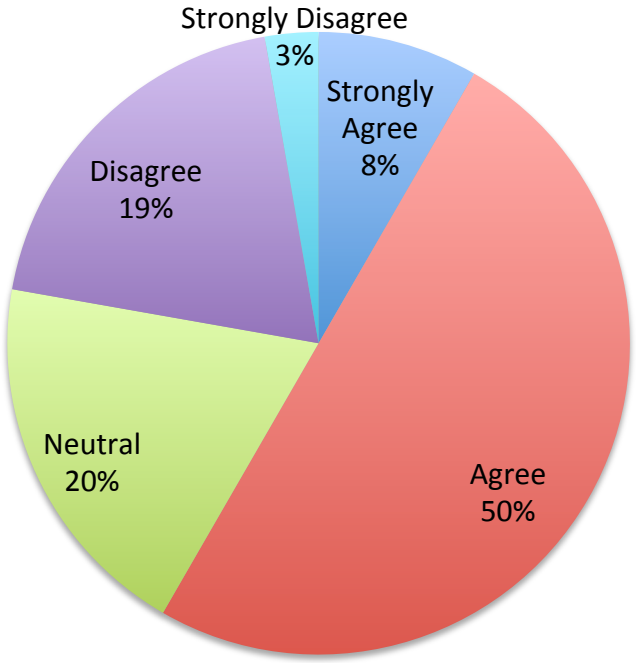
Question 9.1

Do you think that the matrix of Topics and Learning Outcomes is easy to understand? (Rhumbl Spreadsheet).

n = 6

	TOTALS	%
Agree	**4**	**66.7%**
Neutral	**0**	**0.0%**
Disagree	**2**	**33.3%**
Total	**6**	**100.0%**

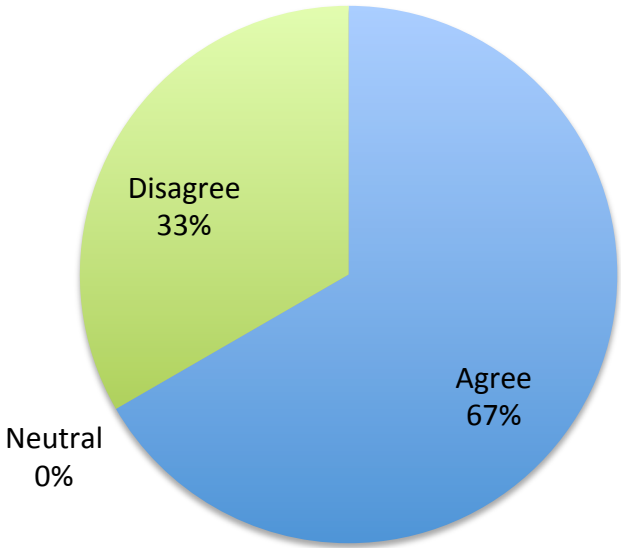
This matrix of Topics and Learning Outcomes is easy to understand. (Rhumbl Spreadsheet).



n = 36

SURVEY

Do you think that the matrix of Topics and Learning Outcomes is easy to understand? (Rhumbl Spreadsheet).



n = 6

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 9b

The Topics and Learning Outcomes are correctly connected. (Rhumbl Spreadsheet).

n = 36

	TOTALS	%
Strongly Agree	**2**	**5.6%**
Agree	**22**	**61.1%**
Neutral	**10**	**27.8%**
Disagree	**2**	**5.6%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.1%**

INTERVIEWS

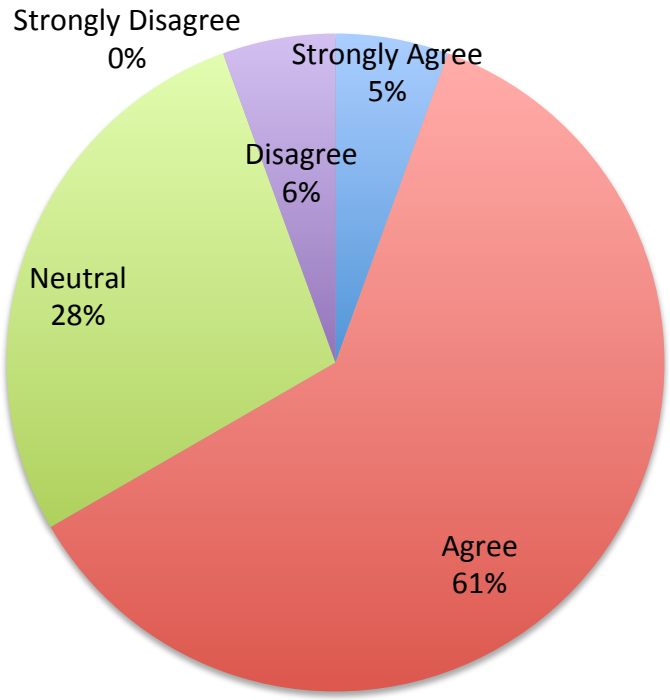
Question 9.2

Do you think that the topics and learning outcomes are correctly connected using the digit 1 to indicate a connection? (Rhumbl Spreadsheet).

n = 6

	TOTALS	%
Agree	**5**	**83.3%**
Neutral	**0**	**0.0%**
Disagree	**1**	**16.7%**
Total	**6**	**100.0%**

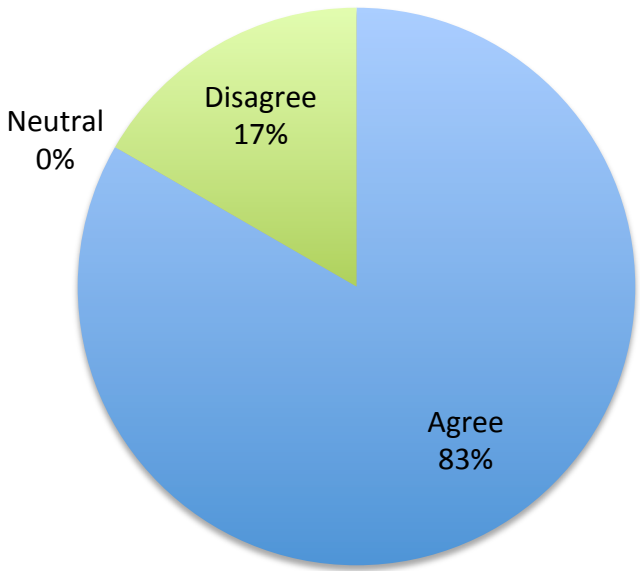
The Topics and Learning Outcomes are correctly connected. (Rhumbl Spreadsheet).



n = 36

SURVEY

Do you think that the topics and learning outcomes are correctly connected using the digit 1 to indicate a connection? (Rhumbl Spreadsheet).



n = 6

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 10a

The map views for this Domain Model are easy to understand. (Rhumbl Maps).

n = 35

	TOTALS	%
Strongly Agree	**9**	**25.7%**
Agree	**8**	**22.9%**
Neutral	**7**	**20.0%**
Disagree	**10**	**28.6%**
Strongly Disagree	**1**	**2.9%**
Total	**35**	**100.1%**

INTERVIEWS

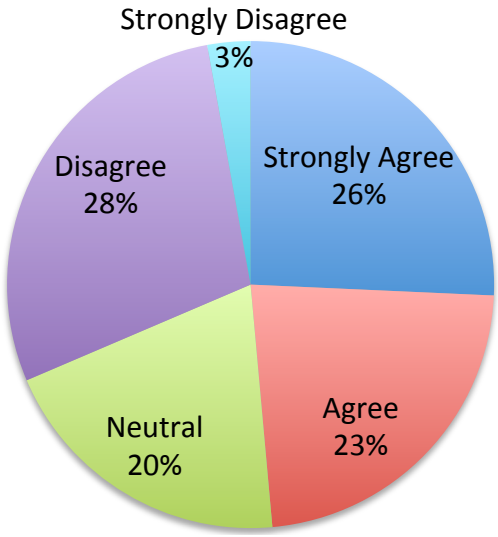
Question 10.1

Do you think that the map views for this version of the domain model are easy to understand? (Rhumbl Maps).

n = 7

	TOTALS	%
Agree	**5**	**71.4%**
Neutral	**1**	**14.3%**
Disagree	**1**	**14.3%**
Total	**7**	**100.0%**

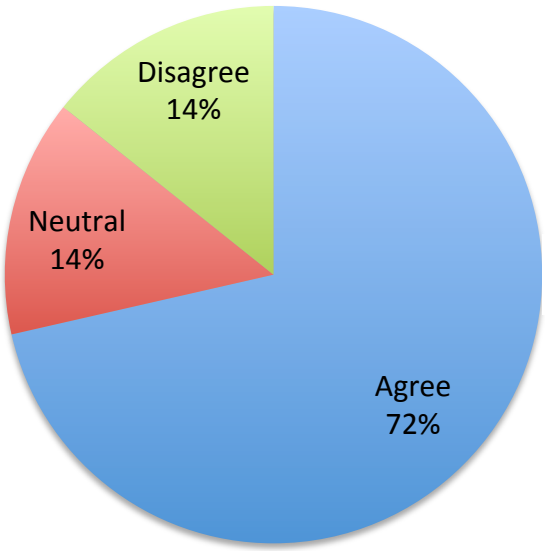
The map views for this Domain Model are easy to understand. (Rhumbl Maps). The map views for this Domain Model are easy to understand. (Rhumbl Maps).



n = 35

SURVEY

Do you think that the map views for this version of the domain model are easy to understand? (Rhumbl Maps).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 10b

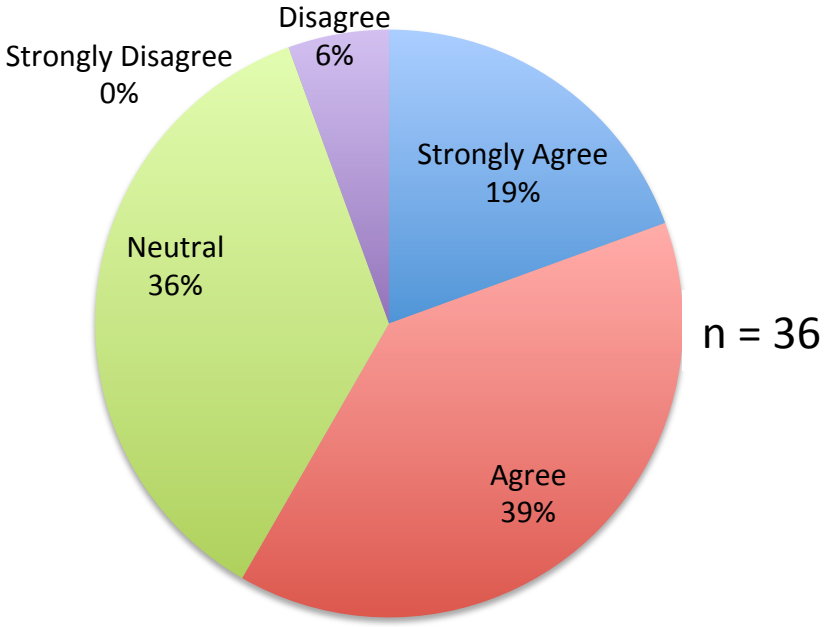
The learning outcomes in this Domain Model are correctly connected. (Rhumbl Maps). *n = 36*	**TOTALS**	**%**
Strongly Agree	**7**	**19.4%**
Agree	**14**	**38.9%**
Neutral	**13**	**36.1%**
Disagree	**2**	**5.6%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.0%**

INTERVIEWS

Question 10.2

Do you think that the learning outcomes in this version of the domain model are correctly connected to the topics? (Rhumbl Maps). *n = 6*	**TOTALS**	**%**
Agree	**4**	**66.7%**
Neutral	**2**	**33.3%**
Disagree	**0**	**0.0%**
Total	**6**	**100.0%**

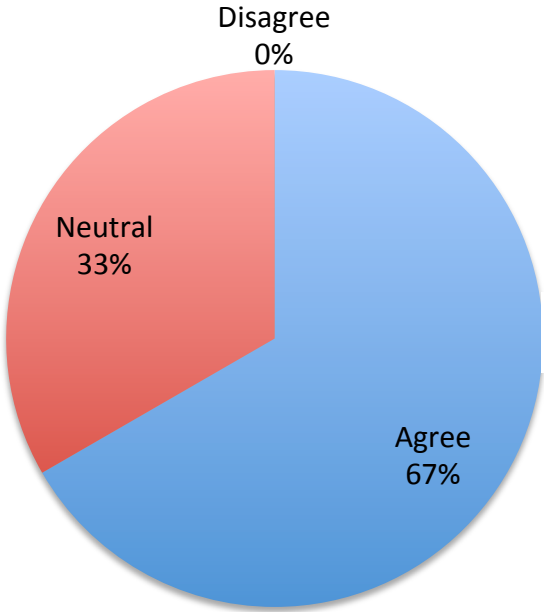
The learning outcomes in this Domain Model are correctly connected. (Rhumbl Maps).



n = 36

SURVEY

Do you think that the learning outcomes in this version of the domain model are correctly connected to the topics? (Rhumbl Maps).



n = 6

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 10c

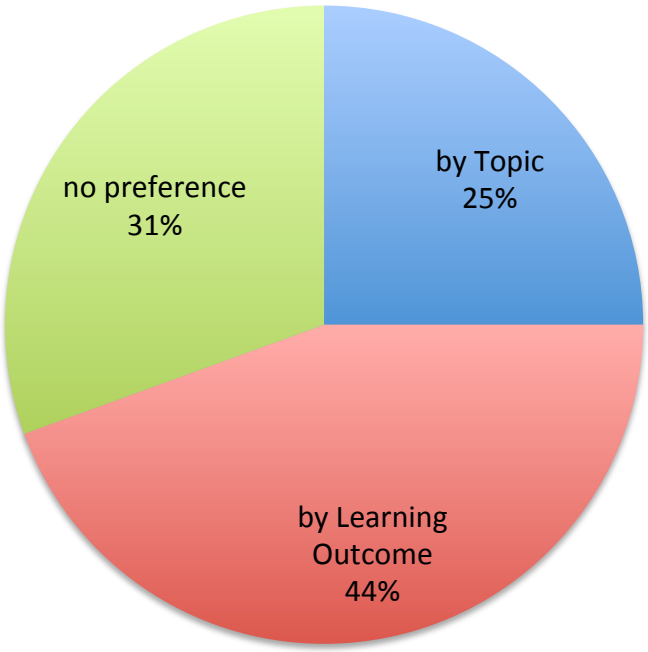
I prefer the following map view… (Rhumbl Maps). *n = 36*	**TOTALS**	**%**
by Topic	**9**	**25.0%**
by Learning Outcome	**16**	**44.4%**
no preference	**11**	**30.6%**
Total	**36**	**100.0%**

INTERVIEWS

Question 10.3

Which of the two map views do you prefer: by topic or by learning outcome? (Rhumbl Maps). *n = 7*	**TOTALS**	**%**
by Topic	**5**	**71.4%**
by Learning Outcome	**1**	**14.3%**
no preference	**1**	**14.3%**
Total	**7**	**100.0%**

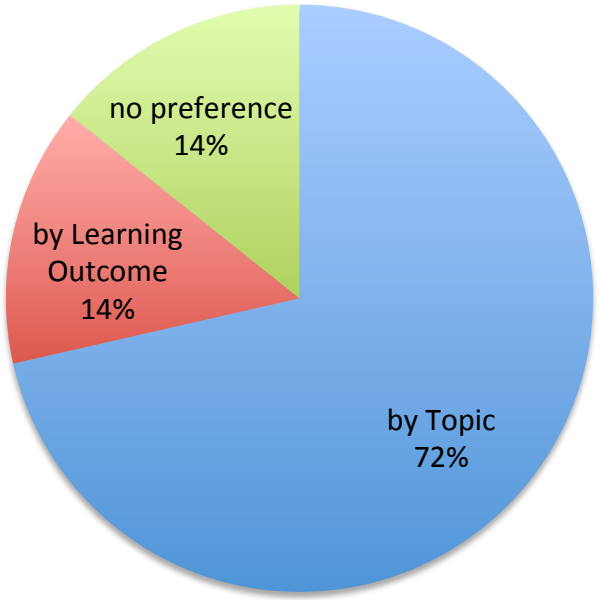
I prefer the following map view… (Rhumbl Maps).



n = 36

SURVEY

Which of the two map views do you prefer: by topic or by learning outcome? (Rhumbl Maps).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 11a

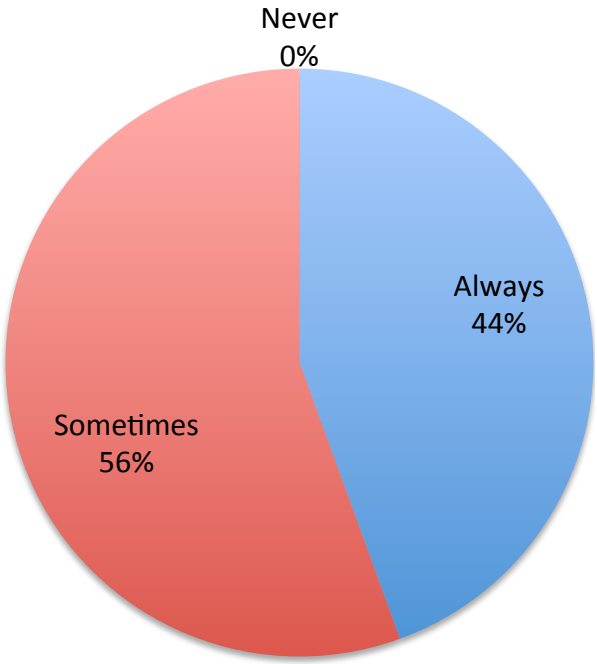
Do you use the syllabus learning outcomes to teach Mathematics? *n = 36*	**TOTALS**	**%**
Always	**16**	**44.4%**
Sometimes	**20**	**55.6%**
Never	**0**	**0.0%**
Total	**36**	**100.0%**

INTERVIEWS

Question 11.1

What do you think teachers should use as the main framework to teach the new Junior Cycle Maths course that commences in September 2018? (Textbook, Syllabus LOs, Unpacked LOs). *n = 7*	**TOTALS**	**%**
Textbook	**1**	**14.3%**
Syllabus LOs	**1**	**14.3%**
Unpacked LOs	**4**	**57.1%**
Neutral	**1**	**14.3%**
Total	**7**	**100.0%**

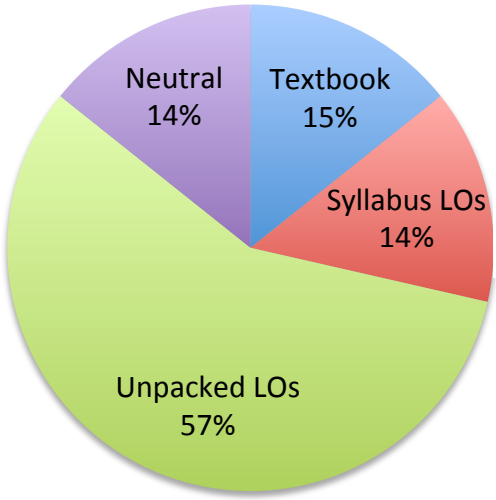
Do you use the syllabus learning outcomes to teach Mathematics?



n = 36

SURVEY

What do you think teachers should use as the main framework to teach the new Junior Cycle Maths course that commences in September 2018? (Textbook, Syllabus LOs, Unpacked LOs).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 11b

Do you use textbook topics (chapters) and sub-topics (sections) to teach Mathematics?
n = 36

	TOTALS	%
Always	**14**	**38.9%**
Sometimes	**20**	**55.6%**
Never	**2**	**5.6%**
Total	**36**	**100.1%**

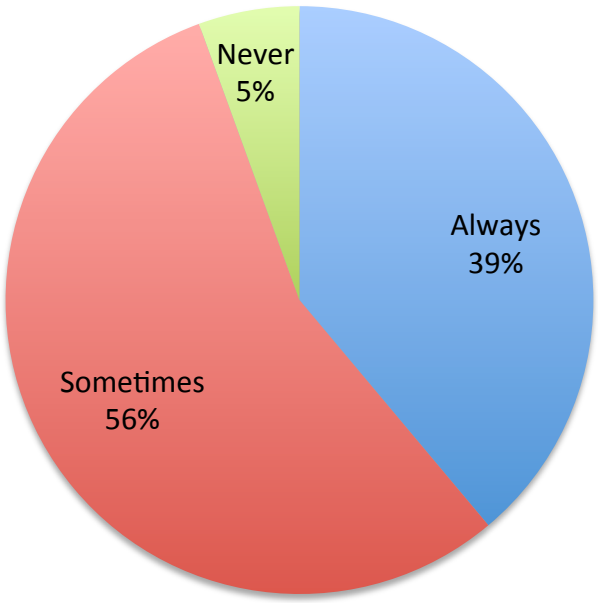
INTERVIEWS

Question 11.2

What do you think students should use to frame their learning for the new Junior Cycle Maths course that commences in September 2018? (Textbook, Syllabus LOs, Unpacked LOs).
n = 7

	TOTALS	%
Textbook	**3**	**42.9%**
Syllabus LOs	**0**	**0.0%**
Unpacked LOs	**2**	**28.6%**
Neutral	**2**	**28.6%**
Total	**7**	**100.1%**

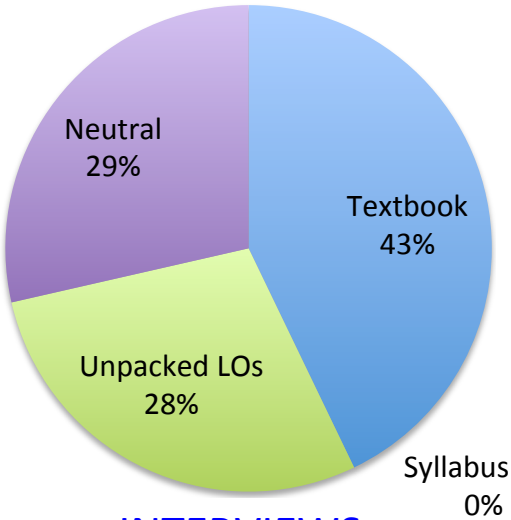
Do you use textbook topics (chapters) and sub-topics (sections) to teach Mathematics?



n = 36

SURVEY

What do you think students should use to frame their learning for the new Junior Cycle Maths course that commences in September 2018? (Textbook, Syllabus LOs, Unpacked LOs).



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 12b

I think that it is a good idea to teach 'Patterns and Functions' as a single topic using a unified set of learning outcomes.
n = 26

	TOTALS	**%**
Strongly Agree	**17**	**65.4%**
Agree	**9**	**34.6%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Strongly Disagree	**0**	**0.0%**
Total	**26**	**100.0%**

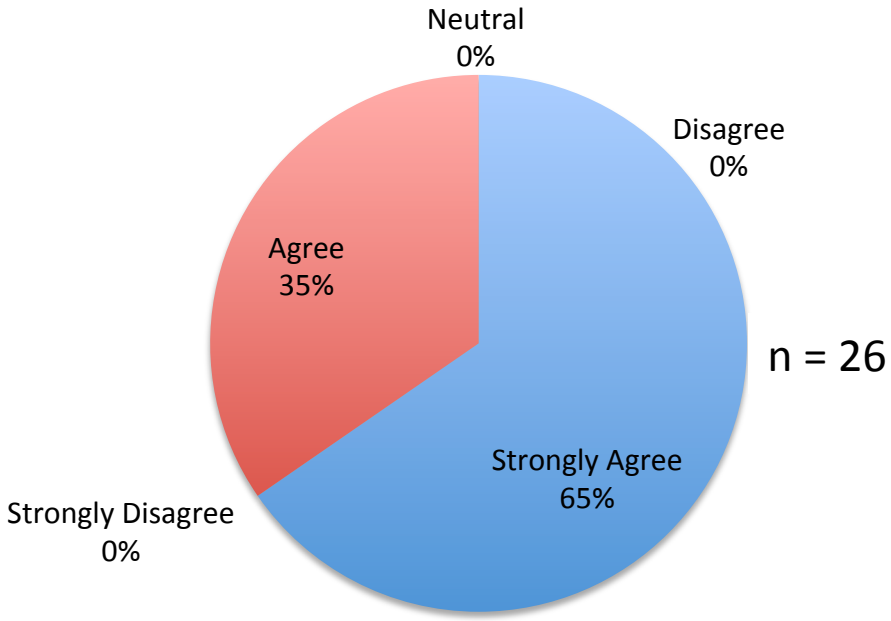
INTERVIEWS

Question 12.1

Do you think that teachers should present 'Patterns and Functions' as a single topic using a unified set of learning outcomes?
n = 7

	TOTALS	**%**
Agree	**7**	**100.0%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

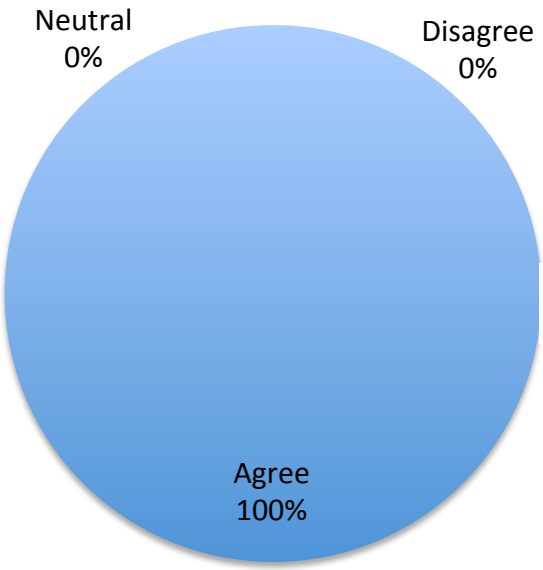
I think that it is a good idea to teach 'Patterns and Functions' as a single topic using a unified set of learning outcomes.



n = 26

SURVEY

Do you think that teachers should present 'Patterns and Functions' as a single topic using a unified set of learning outcomes?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 13a

It is important to teach Mathematics as a hierarchical system of sequenced concepts.
n = 36

	TOTALS	%
Strongly Agree	**10**	**27.8%**
Agree	**15**	**41.7%**
Neutral	**8**	**22.2%**
Disagree	**3**	**8.3%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.0%**

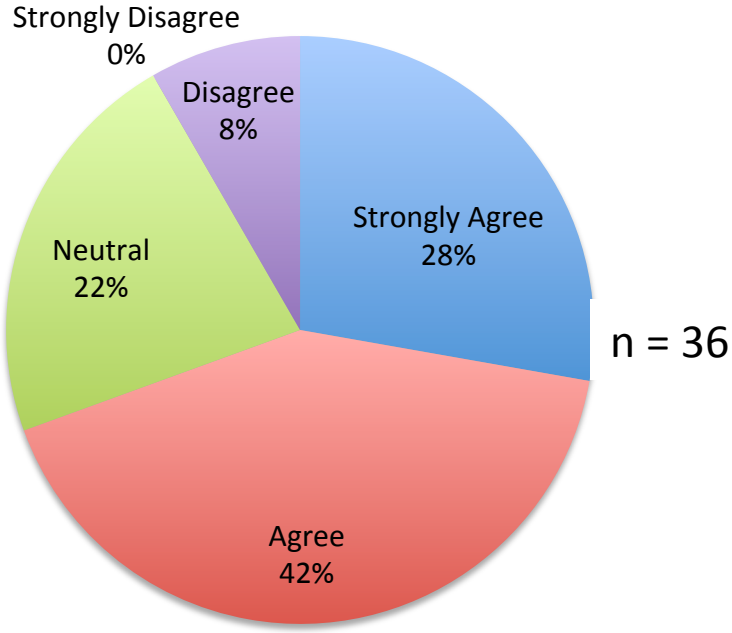
INTERVIEWS

Question 13.1

Do you think Junior Cycle Mathematics should be taught and learned as a hierarchical system of sequenced concepts?
n = 7

	TOTALS	%
Agree	**5**	**71.4%**
Neutral	**1**	**14.3%**
Disagree	**1**	**14.3%**
Total	**7**	**100.0%**

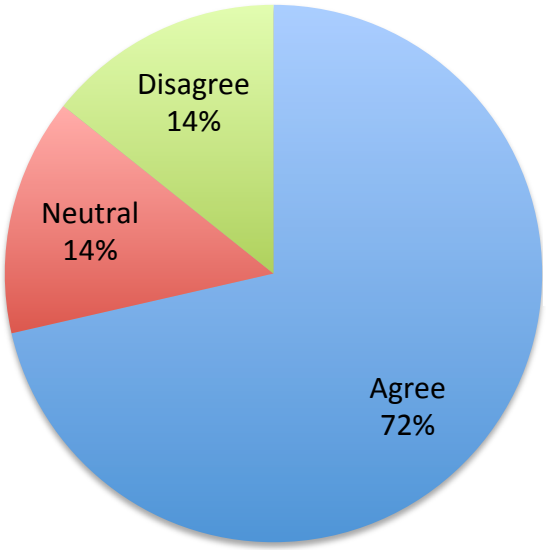
It is important to teach Mathematics as a hierarchical system of sequenced concepts.



n = 36

SURVEY

Do you think Junior Cycle Mathematics should be taught and learned as a hierarchical system of sequenced concepts?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 13b

It is important to teach Mathematics as a system of connected concepts.

n = 36

	TOTALS	%
Strongly Agree	**26**	**72.2%**
Agree	**9**	**25.0%**
Neutral	**0**	**0.0%**
Disagree	**1**	**2.8%**
Strongly Disagree	**0**	**0.0%**
Total	**36**	**100.0%**

INTERVIEWS

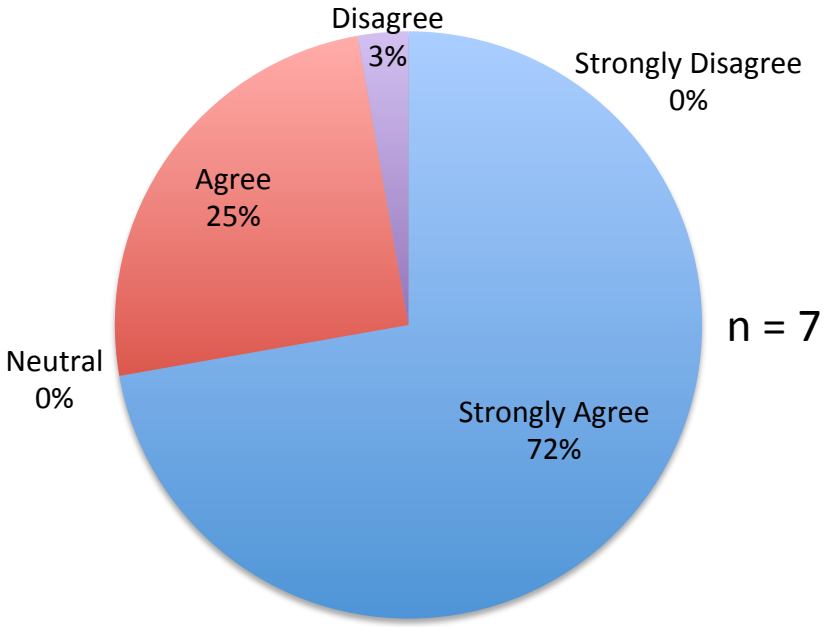
Question 13.4

Do you think Junior Cycle Mathematics should be taught as a system of connected concepts?

n = 7

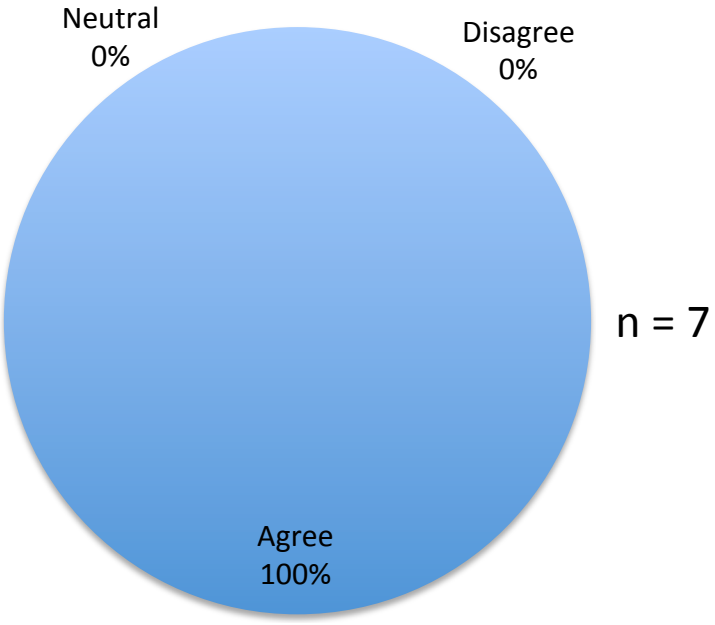
	TOTALS	%
Agree	**7**	**100.0%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

It is important to teach Mathematics as a system of connected concepts.



SURVEY

Do you think Junior Cycle Mathematics should be taught as a system of connected concepts?



INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 14a

I think that a Domain Model is necessary to create an Adaptive Learning System for Mathematics.

n = 26

	TOTALS	%
Strongly Agree	**2**	**7.7%**
Agree	**11**	**42.3%**
Neutral	**12**	**46.2%**
Disagree	**0**	**0.0%**
Strongly Disagree	**1**	**3.8%**
Total	**26**	**100.0%**

INTERVIEWS

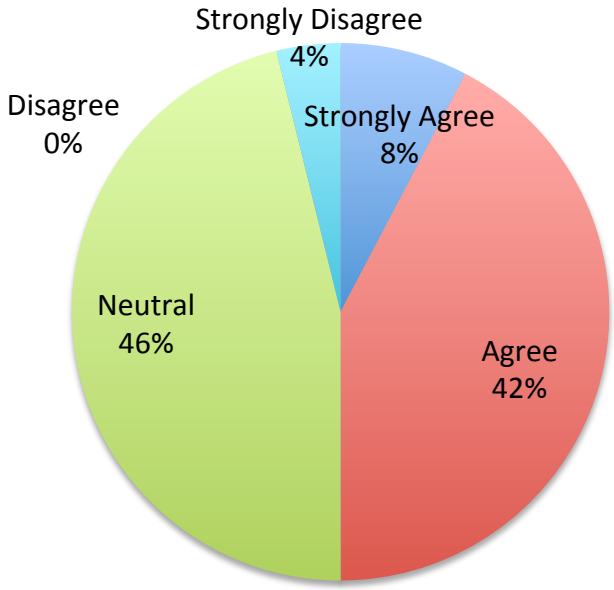
Question 14.1

Do you think that a Domain Model is necessary to create an Adaptive Learning System for Mathematics?

n = 7

	TOTALS	%
Agree	**5**	**71.4%**
Neutral	**2**	**28.6%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

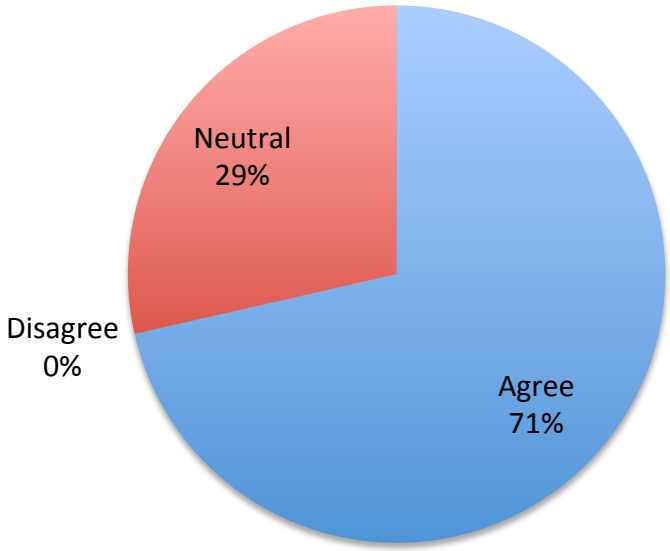
I think that a Domain Model is necessary to create an Adaptive Learning System for Mathematics.



n = 26

SURVEY

Do you think that a Domain Model is necessary to create an Adaptive Learning System for Mathematics?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 14b

I think that an Adaptive Learning System, with a core Domain Model, could enhance the teaching and learning of Junior Cycle and Leaving Certificate Mathematics.

n = 26

	TOTALS	%
Strongly Agree	**4**	**15.4%**
Agree	**16**	**61.5%**
Neutral	**5**	**19.2%**
Disagree	**1**	**3.8%**
Strongly Disagree	**0**	**0.0%**
Total	**26**	**99.9%**

INTERVIEWS

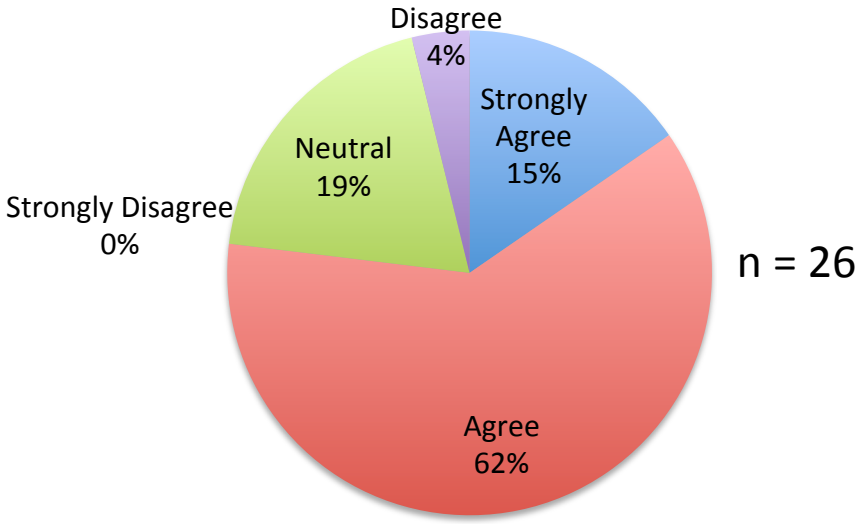
Question 14.2

Do you think that an Adaptive Learning System, with a core Domain Model, could enhance the teaching and learning of Junior Cycle and Leaving Certificate Mathematics?

n = 7

	TOTALS	%
Agree	**7**	**100.0%**
Neutral	**0**	**0.0%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

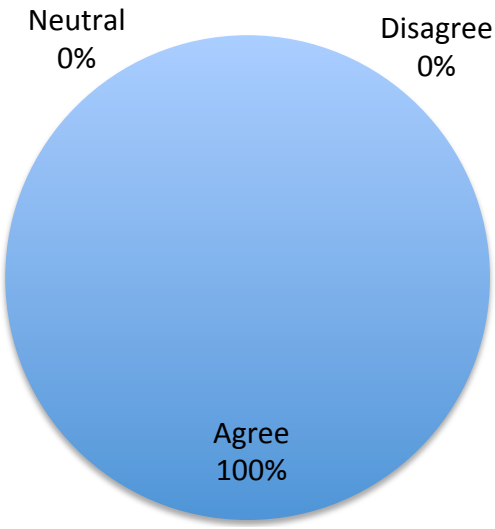
I think that an Adaptive Learning System, with a core Domain Model, could enhance the teaching and learning of Junior Cycle and Leaving Certificate Mathematics.



n = 26

SURVEY

Do you think that an Adaptive Learning System, with a core Domain Model, could enhance the teaching and learning of Junior Cycle and Leaving Certificate Mathematics?



n = 7

INTERVIEWS

Research Study: Adaptive Learning Domain Model for Post-Primary Mathematics

SURVEY

Question 14c

I think that an Adaptive Learning System would be a more effective tool than a textbook for teaching Mathematics as a system of connected concepts.

n = 26

	TOTALS	%
Strongly Agree	**5**	**19.2%**
Agree	**11**	**42.3%**
Neutral	**9**	**34.6%**
Disagree	**1**	**3.8%**
Strongly Disagree	**0**	**0.0%**
Total	**26**	**99.9%**

INTERVIEWS

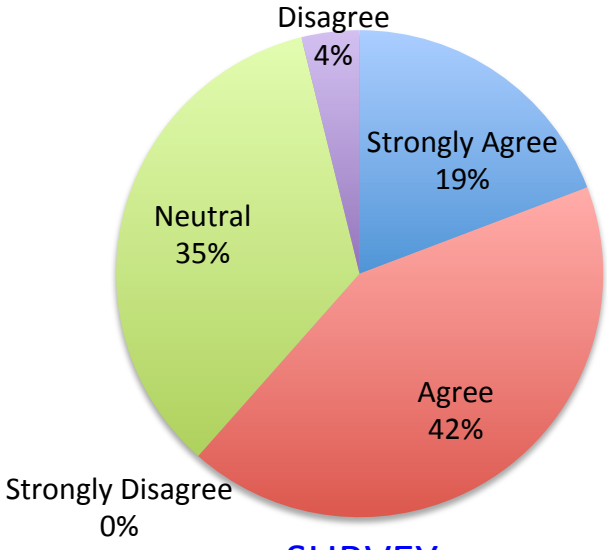
Question 14.3

Do you think that an Adaptive Learning System would be a more effective tool than a textbook for teaching Mathematics as a system of connected concepts?

n = 7

	TOTALS	%
Agree	**6**	**85.7%**
Neutral	**1**	**14.3%**
Disagree	**0**	**0.0%**
Total	**7**	**100.0%**

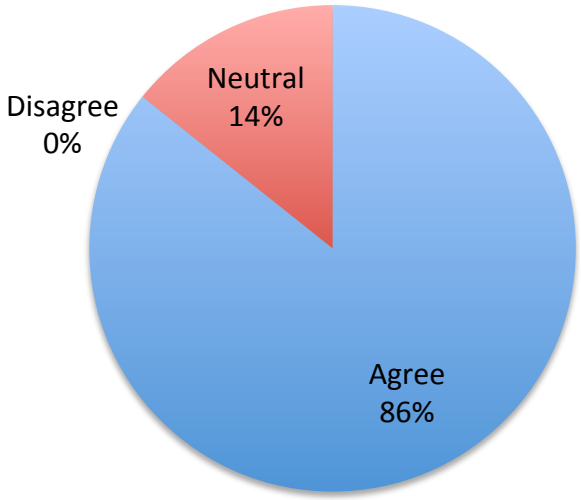
I think that an Adaptive Learning System would be a more effective tool than a textbook for teaching Mathematics as a system of connected concepts.



n = 26

SURVEY

Do you think that an Adaptive Learning System would be a more effective tool than a textbook for teaching Mathematics as a system of connected concepts?



n = 7

INTERVIEWS