Questionnaire about the teaching, learning and assessment of mathematics

Name: ........................................ School: .................................................................

Please indicate your level of agreement with each statement by circling the most appropriate option.

1. The different mathematical concepts and methods that the mathematics curriculum requires students to understand, are best taught separately.

   strongly agree  slightly agree  slightly disagree  disagree  strongly disagree

2. Educational progress in mathematics mostly involves learning facts and solution methods.

   strongly agree  slightly agree  slightly disagree  disagree  strongly disagree

3. How good at mathematics a person is, is something that remains relatively fixed throughout life.

   strongly agree  slightly agree  slightly disagree  disagree  strongly disagree

4. The primary purpose of assessment in mathematics is to inform teaching and learning.

   strongly agree  slightly agree  slightly disagree  disagree  strongly disagree

5. To help students understand new concepts in mathematics it is important to make explicit links with concepts that they are already familiar with.

   strongly agree  slightly agree  slightly disagree  disagree  strongly disagree
6. It is important to assess students’ understanding of links between mathematical concepts and solution methods to better understand how to help them to improve.

   strongly agree  agree    slightly agree    slightly disagree  disagree  strongly disagree

7. Making explicit for the students the links between mathematical concepts and methods will assist any student to succeed provided they make an effort.

   strongly agree  agree    slightly agree    slightly disagree  disagree  strongly disagree

8. Continual informal assessment of students’ understanding of mathematical concepts gives me sound information to help them improve.

   strongly agree  agree    slightly agree    slightly disagree  disagree  strongly disagree

9. All students are able to learn to use any mathematical method if they make an effort.

   strongly agree  agree    slightly agree    slightly disagree  disagree  strongly disagree

10. Any student who makes an effort can succeed in mathematics provided they get good feedback.

    strongly agree  agree    slightly agree    slightly disagree  disagree  strongly disagree

11. It is important that students explore different solution methods for the same type of mathematical problem.

    strongly agree  agree    slightly agree    slightly disagree  disagree  strongly disagree

12. Students’ demonstration of sound mathematical reasoning is more important than whether or not they produce correct answers.
13. All students can be excellent at mathematics if they work hard at it.

14. The primary purpose of assessment in mathematics is to report on students' achievement.

15. Making explicit links with familiar mathematical solution methods helps students learn new methods.

16. Assessing students' understanding of mathematical concepts and solution methods separately provides the best information to assist them to improve.

17. Explicitly understanding the links between certain mathematical concepts and solution methods is simply too difficult for some students.

18. The most informative way to measure students' learning is to assess mathematical concepts and solution methods separately.

19. Some mathematical concepts are just too difficult for some students, even if they work hard.
20. Even if given good quality feedback some students make little progress in mathematics.

21. Making explicit the links between different mathematical concepts and solution methods is important for students’ learning.

22. It is more important that students understand why mathematical solution methods work than it is for them to memorise formulas.

23. Students’ lack of achievement in mathematics is usually attributable to lack of effort.

24. The most valuable assessment in mathematics is that carried out at the completion of a unit of work.

25. New mathematical concepts are easier to understand when broken into separate components.
26. In mathematics, it is important to assess students at the end of a unit of work to ascertain how well they are linking their current learning with previously learned concepts and methods.

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27. If the mathematical curriculum is presented in separate components, any student who makes an effort can be successful.

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28. Monitoring students' understanding and misconceptions in mathematics informs a teacher about how to assist students to learn to solve problems using the methods that they have been taught.

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<th>strongly agree</th>
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29. All students are able to learn any mathematical concept if they make enough effort.

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<tr>
<th>strongly agree</th>
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30. When I report on students' lack of achievement in mathematics, I usually attribute the problem to the need for more hard work.

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31. Students learn mathematical concepts and methods best when they are taught separately.

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32. It is more important that teachers focus on mathematical facts and solution methods than on abstract concepts.

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<th>strongly agree</th>
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<th>strongly disagree</th>
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</table>
33. A student's lack of achievement in mathematics is usually attributable to the student not being good at mathematics.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree

34. The most valuable assessment in mathematics is that carried out prior to, or during a unit of work.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree

35. Students best learn how to apply new solution methods in mathematics when approached separately.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree

36. The mathematics curriculum is too difficult for some students, even when broken into separate components.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree

37. The most informative reporting of students' achievement in mathematics is in terms of their understanding of important concepts.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree

38. Assessing students' ability to use mathematical methods and procedures is the most informative way of measuring achievement.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree

39. Some mathematical methods are just too difficult for some students to learn to use.

strongly agree | agree | slightly agree | slightly disagree | disagree | strongly disagree
40. When I report on students’ lack of achievement in mathematics, I usually attribute the problem to the maths being too difficult for the students to achieve.

strongly agree slightly slightly disagree strongly agree agree disagree disagree

41. If you wish to, please make any additional comments about your views on the assessment of mathematics, how students learn mathematics and effective mathematical pedagogy.

Information about you
The following information will be used for statistical purposes only.

42. Please circle your gender. male female

43. How many years have you been teaching mathematics?

44. How many Year 5 students are you teaching for mathematics this year?

45. How many Year 6 students are you teaching for mathematics this year?

46. How many teachers are teaching mathematics to Year 5 and Year 6 students at your school this year.
47. How much time do you timetable for mathematics each day?

48. Do you usually plan mathematical programs collaboratively or individually?

Thank you for completing this questionnaire.