

A survey of feelings and beliefs about mathematics among apprentices

Thank you for taking our survey. This research being led by a research team at the Centre for Education Studies at the University of Warwick. We wish to find out how apprentices experience mathematics now compared with when they were at school.

The survey should take no more than 10 minutes to complete, depending on your answers. As a thank you, we will enter you into our free prize draw. We have 4 x Amazon vouchers to give away, each worth £100. All you have to do is complete this survey and provide your name and email address at the end and you will automatically be entered for the prize draw (prize draw rules can be seen at <http://www2.warwick.ac.uk/fac/soc/cei/sg/maprizedraw//>). Your name and contact details will only be used in connection with the prize draw and not for any other purposes.

All of the information that you provide will be treated as confidential and will only be used by the research team for research purposes. You can find our our privacy statement at: <http://www2.warwick.ac.uk/fac/soc/cei/sg/privacystatement/>

Your consent:

- I agree to take part in this survey
- I do not wish to take part in this survey

A little bit about you

1. Please tell us the name of your training provider: (please print clearly)

2. Which type of apprenticeship you are taking? (select one only)

- Agriculture, Horticulture and Animal Care
- Arts, Media and Publishing
- Business Administration and Law
- Construction, Planning and the Build Environment
- Education and Training
- Engineering and Manufacturing Technologies
- Health, Public Services and Care
- Information and Communication Technology
- Leisure, Travel and Tourism
- Retail and Commercial Enterprise

3. Level of Apprenticeship (select one only)

- Intermediate (level 2)
- Advanced (level 3)
- Higher (degree equivalent)

4. Highest mathematics qualification before starting this apprenticeship (select one only)

- Level 1 (and alternatives eg GCSE D-G)
- Level 2 (and alternatives eg GCSE A-C)
- Level 3 (and alternatives eg A Level)
- Other

5. What was your grade for the above qualification? (please print clearly)

Your feelings and beliefs about Maths, Part A.

6a. Please indicate your level of agreement with the following statements: (select one response only for each statement)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Undecided</i>	<i>Disagree</i>	<i>Strongly disagree</i>
1. Maths is very helpful no matter what I decide to study	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Struggle is a normal part of working on Maths	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. If someone is not good at Maths, there is nothing that can be done to change that	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. It wouldn't bother me at all to take more maths classes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. Maths can be learned by anyone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. Everyone struggles with Maths at some point	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. I have usually been at ease during maths tests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. Maths is essential for my future	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. If someone is not a Maths person, they won't be able to learn much Maths	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Good Mathematicians experience difficulties when solving problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. I have usually been at ease in maths courses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. People who work in Maths-related fields sometimes find Maths challenging

13. People are either good at Maths or they aren't

14. I usually don't worry about my ability to solve maths problems

15. Everyone makes mistakes at times when doing Maths

16. Maths will be useful to me in my life's work

Your feelings and beliefs about Maths, Part B.

6b. Please indicate your level of agreement with the following statements: (select one response only for each statement)

Strongly agree

Agree

Undecided

Disagree

Strongly disagree

17. People in my peer group sometimes struggle with Maths

18. I almost never get uptight while taking maths tests

19. Everyone's Maths ability is determined at birth

20. People who are good at Maths may fail a hard Maths test

21. I get really uptight during maths tests

22. Knowing Maths contributes greatly to achieving my goals

23. Having a solid knowledge of Maths helps me understand more complex topics in my field

24. I get a sinking feeling when I think of trying hard maths problems

25. Some people cannot learn Maths

26. Learning Maths develops good thinking skills that are necessary to succeed in any career

27. My mind goes blank and I am unable to think clearly when working on mathematics

28. Making mistakes is necessary to get good at Maths

29. Thinking mathematically can help me with things that matter to me

30. Mathematics makes me feel uncomfortable and nervous

31. Only smart people can do Maths

32. It would be difficult to succeed in life without Maths

33. Mathematics makes me feel uneasy and confused.

About your choice of apprenticeship

7. Did your feelings about mathematics affect your choice of apprenticeship? (select one only)

A lot

A little

Not at all

If you wish to comment on your answer, please use this space: (please print clearly)

8. Think about when you chose your apprenticeship. Is the amount of maths you use now in your apprenticeship more / less or the same as you expected? (select one only)

More

Less

The same

If you wish to comment on your answer, please use this space: (please print clearly)

9. Think about when you chose your apprenticeship. Is the difficulty of maths you use now in your apprenticeship harder/ easier or the same as you expected? (select one only)

Harder

Easier

The same

If you wish to comment on your answer, please use this space: (please print clearly)

10. Is the mathematics you do on your apprenticeship different from the mathematics that you did in school? (select one only)

Yes

No

If yes, please give an example of how it is different: (please print clearly)

11. Think about the maths in your apprenticeship. What areas do you find particularly hard, if any?
(please print clearly)

12. Think about the maths in your apprenticeship. What areas do you find particularly easy, if any?
(please print clearly)

Plans for the future

13. How many years have you been an apprentice? (please enter a number)

What qualifications are you doing as part of your apprenticeship?

14a) Functional Skills: What level? (please print clearly)

14b) Knowledge-based qualifications: Which subject ? (please print clearly)

14c) Other: Please specify (please print clearly)

15. Do you expect to continue to a higher apprenticeship or qualification on completion of your current apprenticeship? (select one only)

- Yes
 No
 Not sure

If you wish to be entered into the prize draw, please provide your details below:

Contact details (Required only for entry into the Prize Draw. We will not use this information for any other purpose)

Name (please print clearly)

Email (please print clearly)

Thank you for your cooperation and good luck in the prize draw!

Please hand your completed questionnaire back to your tutor/trainer/assessor so that they can return it to the research team.