

PRE QUESTIONNAIRES FOR EDUCATORS AND EXPERTS PARTICIPATING IN STEM ACTIVITIES

PRE QUESTIONNAIRES FOR VOLUNTEERS
PARTICIPATING IN MATHS ACTIVITIES DESIGNED
AND USED BY UNIVERSITAT AUTÒNOMA DE
BARCELONA (UAB)

UAB

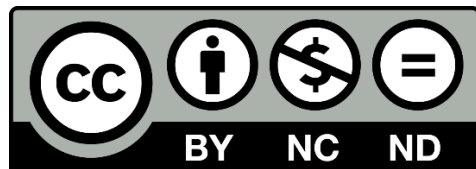
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PRE-QUESTIONNAIRE

QUESTIONNAIRE GUIDELINES

This questionnaire was used before the training of the volunteers participating in the STEAM4U project at the Universitat Autònoma de Barcelona. We asked them to answer the questions in a sincere and personal way before coming to the first training session.

The purpose of the questionnaire is to know the opinions of the volunteers in order to adapt and improve the training provided in the workshops.

MODULE TITLE: IDENTIFICATION OF THE VOLUNTEER

1. Which is your name?
2. Which is your date of birth?
3. Please, provide your gender (mark one answer)
 - Male
 - Female
 - Other
4. What degree(s) are you currently studying?

MODULE TITLE: PERCEPTION OF STANCE ON STEM

5. How would you define your relationship with mathematics?
 - I do not like them at all. We do not get along, and I try to avoid them at all costs. If I use them, it's because I really do not have any other option.
 - They are not one of my strong points, and maybe I prefer to avoid them. But if I have to use them, I can stand it.
 - I can enjoy them when I use Maths which I dominate. However, it backtracks me when I face a problem implying an intellectual challenge.
 - I like them very much. I enjoy when I use them and I am not afraid if a problem poses an intellectual challenge, on the contrary.



MODULE TITLE: THE UNIX PROGRAM

6. What do you think is the main benefit for young people participating in the UNIX program? (tick a single answer).

- Develop a good level of mathematics
- Increase confidence in themselves
- Achieve basic skills/competences
- Do homework properly
- Learn study habits
- Let the kids have a good time
- Learn mathematics in a different way
- Other benefits (please, specify) _____

7. What is the most important thing to be a good UNIX volunteer? (mark a MAXIMUM of 3 replies).

- Have a good level of knowledge of mathematics
- Be nice / nice with teens
- Have patience
- Promote the confidence of teens in their abilities
- Have control of the classroom
- To have many resources so that the teens do not get bored
- Have a close attitude with young people
- Other things (please, specify) _____



**8. What do you think teens need to develop a good mathematical competence?
(mark an answer for each one of the rows)**

	Unimportant	Of little importance	Considerably important	Very important
Set up an activity that has a motivating context				
Let them feel that they are capable of doing the proposed activity successfully				
Have a teacher that engage the students				
Have a study habits				
Have innate abilities to solve the problem				
Make teens feel that they are useful for everyday life				
Teens' family valuing the importance of mathematical knowledge				
Teens' wanting to study something related to math				
Teen's not feeling different if they are interested in mathematics				

9. Why did you give this score to "Do you feel that you are capable of doing it" in the previous question?



MODULE TITLE: METHODOLOGICAL STRATEGIES

In this section, we suggest that you reflect on your ability to make and think activities for UNIX's teens, and the strategies you have for them to feel they are capable of doing Mathematics.

10. Select the level with which you agree or disagree with the following statements

	Strongly disagree	Somehow disagree	Somehow agree	Totally agree
I feel less able to teach maths to teens who speak Catalan/Spanish as a second language than those who speak Catalan/Spanish as their first language				
I feel less able to teach maths to teens of low socio-economic level than those of mid/high socio-economic level				
I feel less able to teach math to girls than boys				

11. How capable do you feel about doing a UNIX activity in which teens gain confidence in their mathematical abilities? (marks a response from the 1-4 scale)

Not capable at all 1	2	3	Totally capable 4
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12. How capable do you feel to design a Unix activity so that young people can feel they have the capabilities to do maths? (marks a response from the 1-4 scale)

Not capable at all 1	2	3	Totally capable 4
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13. Tell us what your strategies are for make teens feel they have the capabilities to do maths.





MODULE TITLE: EXPECTATIONS ABOUT THE WORKSHOP

Now we suggest you reflect on your own expectations regarding the training you will receive.

14. What do you think the training can help you with? (mark a unique answer)

- To better know what do I have to do at UNIX workshops
- Give me strategies to help students learn math
- Give me strategies to help students in the acquisition of habits and study strategies
- Give me strategies to manage the class especially in moments of tension
- Give me strategies to encourage students to be able to do maths
- I do not know
- Other (please, specify)

15. Other comments that we want to send before training

