

EXAMPLE OF POST- QUESTIONNAIRE FOR 12-14- YEAR-OLD STUDENTS



THIS QUESTIONNAIRE HAS BEEN
DESIGNED, VALIDATED AND USED BY
FLORIDA SECUNDÀRIA & SINS
CARDENER





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QUESTIONNAIRE GUIDELINES

This questionnaire was used after the implementation of the project of the scientific conference at Florida secundària and SINS Cardener secondary schools. We asked students to answer the questions in a sincere and personal way.

The purpose of the questionnaire is to know the opinions of the teens in order to adapt and improve the training provided in the workshops and assess the impact on their self-efficacy in STEM.





IDENTIFICATION OF THE PARTICIPANT

1. Which is your name?
2. How old are you?
3. What is the genre with which you feel identified?

Male

Female

Other

4. Which is the name of your school?

EXPECTATIONS OF THE PARTICIPANT

5. After participating in the project of the scientific conference, from the following list mark the items about you would like to know more

Use materials I do not have at home

Know real people working in STEM

Research about natural phenomena

Research how things made by humans work

Research about other things I like



HOW DO YOU FEEL?

In this section, we suggest you to think about your relationship with the scientific and technological world.

6. Please, provide an answer by marking it on each row. After your experience in the scientific conference...

	Not at all	Very little	A little	Somehow	Considerably	A lot
Do you like the scientific activities in which you have the opportunity to participate?						
Would you like to study in the future studies related to science, technology engineering or mates?						
In your free time, do you like to do things related to science? (to do excursions to nature, visit a science museum, watch a video about science ...)						

7. Do you feel that your interest about scientific topics has grown after your participation in the scientific conference?

No, I am less interested in scientific topics than before

No, I am as interested in scientific topics than before

Yes, I am a bit more interested in scientific topics than before

Yes, I am much more interested in scientific topics than before



8. To which extent have you felt capable of...

	Not capable at all	A little capable	Quite capable	Very capable	Totally capable	Totally capable and I could help my colleagues
Designing experiences to collect data. (e.g. designing an experiment to observe a phenomenon)						
Formulating hypotheses or predictions about an experiment. (for example, what do I think will happen?)						
Identifying what factors or conditions (variables) can affect an experiment. (eg the amount of light can cause a plant to grow more or less)						
Collecting data and represent them graphically.						
Providing a scientific explanation of phenomena or experiences. (eg how it happened or why it happened ...)						
Obtaining conclusions based on collected data. (e.g. justify something from the data or experiment performed)						
Arguing publicly the results of an investigation (eg defend, expose a job)						



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9. Do you feel much more capable of doing a scientific research after your participation in the scientific conference?

No, I feel less capable than before

No, I feel as capable as before

Yes, I feel a bit more capable than before

Yes, I feel much more capable than before

10. Do you think that you have achieved the goals of the scientific conference?

Yes

No

11. During the conference, what has made your feel that you were capable of doing a scientific research? (you can explain us an example or situation where you have felt you were capable).

12. Which of your potentialities (what is good for you, what you are good / good) do you think is useful for carrying out scientific research?



WHICH THINGS HELP ME TO LEARN SCIENCE?

13. To which extent the following actions made by your teachers have made you feel you were able to do a scientific research throughout the project?

	Not carried out by my teacher	It does not help me at all	It helps me very little	It helps me a little	It helps me somehow	It helps me considerably	It definitely helps me a lot
The teacher helps me to see what my ability to do science and believe in it							
That the expert of the initial talk (happening) appear to be a close person and makes me feel that I can also do a scientific research							
That the teacher helps me to be aware of what I do right and wrong throughout an entire activity (eg knowing where I am from the activity in relation to the final objective, knowing how my work is evaluated...)							
That the teacher uses words that I can understand and not too many technical in the classroom							
Build together, with the teacher, the final structure that my work, TIT, video or scientific poster should have							
That teacher help me to learn how to manage my emotions (e.g., help overcome the tension of having to expose in public)							



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14. After participating in the scientific conference, please answer the following questions

	Not at all	Very little	A little	Somehow	Considerably	A lot
Do you feel involved in science classes?						
Your interest in science has declined in recent years?						
Would you like to train in health, biology, medicine ...?						
Would you like to train in communication technologies, physics, engineering ...?						
Think of a person who is dedicated to science, technology, engineering or mathematics. Do you see doing the same thing that person does?						
When you find yourself having difficulty doing science it's easy for you to get back and overcome it?						
Do you positively value your academic results?						

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15. Has your vision of science changed after participating in the scientific conference?

Yes

No

16. In what sense it has changed?

17. What has made it change?

TO FINISH (PERSONAL CHARACTERISATION)

18. In which country were you born?

19. Where were your parents born?

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20. Which level of studies have your parents?

	Primary studies not finished	Primary education finished (eg primary)	Compulsory studies finished (eg. ESO)	Post-compulsory studies finished (eg vocational training ...)	University degree finished (eg Degree, Diploma, Degree ...)	Tertiary studies finished (eg Masters, Doctorates ...)
Father, Mother or tutor						
Father, Mother, or Tutor						

21. How many books do you have at home?

Few books, not even a complete shelf

One complete shelf

Approximately a bookstore (a piece of furniture with several shelves full of books)

Approximately two bookstores (two furniture with several shelves full of books)

Three or more bookstores (three or more furniture with several shelves full of books)

Thank you for your answers!

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