

EXAMPLE OF FINAL FOCUS GROUP INTERVIEW WITH 12-14-YEAR-OLD TEENS



THIS INTERVIEW PROTOCOL HAS BEEN
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Supported by
the Erasmus+ programme
of the European Union



INTERVIEW GUIDELINES

The following questions are guidelines to conduct a final focus group with 12-14-year-old students to have an insight of their self-efficacy in STEM and factors affecting it. The guidelines are supposed to provide an structured, but they do not have to be followed in an strict order, but within the flow of the conversation.





EXPECTATIONS OF THE SCIENTIFIC CONFERENCE

1. Have your initial expectations regarding the scientific conference been fulfilled?
2. What does science mean to you, after participating in the scientific conference?

CHARACTERISATION OF STANCE ON STEM

3. How do you rate your experience when doing science, after participating in the scientific conference?
 - a. Did you like it? What did you like the most?
 - b. Would you like to continue studying science in a future? Why?
 - c. Has your participation in the project made you change your interests about science topics? Why?
 - d. And about your willingness to continue studying science? Why?
4. Did you do things related with science in your free time? (for example, activities, studying, watching a documental, going to a science museum...)
5. Throughout the scientific conference, did you feel like a scientist? Why?
 - a. And when you were not doing the project?
6. Do you feel capable of doing science now? Why?
 - a. In which fields do you feel more capable?
 - b. In which scientific activities have you felt more capable in the scientific conference? (designing experiences, collecting data...)
7. When you have faced a difficulty in the scientific conference, how did you act?
 - a. What do you think science professionals do in a similar situation?
8. Which personal characteristics do you think a science professional has to have?
9. Which characteristics of your own personality do you think are good for doing science? Why?



STRATEGIES TO RAISE SELF-EFFICACY

10. What helps you to do science?

**11. To which extent have the following strategies helped you to learn science?
(rate them from 1 to 5)**

That the teacher help me to see my capacities in science

That the expert doing the initial talk appear to be close to me

Help me to know if I am doing right or wrong at any time

Use easy vocabulary (not too technical)

Create with my teacher the final structure that the product of the project has to follow

That the teacher help me to manage my feelings

12. Of all the previous items, which is the one that helps you the most when learning science?

13. Is there any other strategy/action that helps you to learn science?

GENDER IN STEM

14. Do you think are any differences between boys and girls when you do science?

- a. And in the participation in the classroom and the relation with the teacher?
- b. And regarding the interest in STEM?
- c. And regarding the aspirations in STEM?
- d. And regarding the marks?
- e. And regarding the success or failure in STEM subjects? And the attitude towards them?

CONCLUSION OF THE FOCUS

Thank all the participants.

15. Is there anything else you would like to add regarding the topics we have talked about?