

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



**THIS INTERVIEW PROTOCOL HAS BEEN  
DESIGNED, VALIDATED AND USED BY  
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## INTERVIEW GUIDELINES

The following questions are guidelines to conduct an initial 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. What do you expect from the scientific conference?
2. What does science mean to you?

## CHARACTERISATION OF STANCE ON STEM

3. How do you rate your experience when doing science?
  - a. Do you like doing science? What do you like from science?
  - b. Would you like to continue studying science in a future? Why?
4. What do you think when you hear someone talking about scientific topics?
5. What does know/do science mean to you?
6. Do you like to do things related with science in your free time? (for example, activities, studying, watching a documental, going to a science museum...)
7. When you do science, do you feel like a scientist? Why?
  - a. And when you do not do science?
8. Do you feel capable of doing science? Why?
  - a. In which fields do you feel more capable?
  - b. In which scientific activities? (designing experiences, collecting data...)
9. When you face a difficulty in a scientific activity, how do you act in front of it?
  - a. What do you think science professionals do in a similar situation?
10. Which personal characteristics do you think a science professional has to have?
11. Which characteristics of your own personality do you think are good for doing science? Why?

## STRATEGIES TO RAISE SELF-EFFICACY

12. What helps you to do science?



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**13. To which extent the following strategies help 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

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

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

## GENDER IN STEM

**16. 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.

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

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STEAM  
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