

Interviewing guidelines for participant parents in STEAM activities

Post-event interview

Interview guidelines

Interviews are aimed at providing more information about participants' self-efficacy in STEM. They can be fast than the diaries, but direct interaction between interviewee and interviewed can hinder participants' beliefs if there is not a close link between both.

These questions are designed for a post-event interview. Questions for a pre-event interview would need to be adapted from these ones.

Introduction and initiative monitoring

- **What have you done in the activity?**
- **What did you expect to find in this activity?**
- **How did you imagine a scientist/engineer/... before coming to the activity?**
- **Has your image changed? Why?**

[Other questions about monitoring the initiative and/or ice-breaking can be added]

Assessment of self-efficacy in STEM

- **What did you think at the beginning of the activity while the tutor/monitor was presenting you the activity? Was it appealing? Why?**

[Question aimed at assessing participants' Level of Motivation, Outcome expectancies]

- **At the beginning, did you personally feel that you were able to do the proposed activity? Why?**

[Question aimed at assessing participants' retrospective initial self-efficacy beliefs at an individual level]

- **At the beginning, did you personally feel that you were able to do the proposed activity as a family group with your kids? Why?**

[Question aimed at assessing participants' retrospective initial self-efficacy beliefs at a collective level]

- **Are you satisfied with what you have done both at personal level and at family level? Why?**

[Question aimed at assessing participants' self-satisfaction, how they value their achievements]



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- **Do you feel you have been able to do this STEAM activity successfully? And as a family group?**

[Question aimed at assessing participants' retrospective self-efficacy beliefs]

- **What do you think has helped you to feel successful at the activity? (at a personal level and at family level)**

[Question aimed at identifying which elements have helped participants to feel capable of doing STEM]

- **Has your level of confidence in STEM changed from before? What has made it change?**

[Question aimed at identifying which elements have helped teens to feel capable of doing STEM]

- **How confident are you that you will be successful doing STEM activities in the future? Why?**

[Question aimed at assessing teens' prospective self-efficacy beliefs]

- **What would you say to other parents who do not feel capable of doing these type of activities?**

[Question aimed at identifying which elements have helped teens to feel capable of doing STEM]