

Peer Communities and STEM Development - Koo

Supplementary Material 3. Frequency Table of Responses to all Research Identity Scale (RIS) Items.

ITEM		Year 1					Year 2					Year 3				
		Strongly Disagree	Disagree	Agree	Strongly Agree	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree
AGENCY																
I can discuss research ideas with my peers. [†]	Pre	4	14	1	0	0	1	5	10	4	0	1	0	6	9	3
	Post	6	13	1	0	0	0	2	9	9	0	0	0	4	8	7
I can do research that helps people. [†]	Pre	7	13	0	0	0	0	3	11	6	0	0	0	3	10	6
	Post	10	10	0	0	0	0	1	9	10	0	0	1	1	10	7
I want to research topics that can improve the lives of people around me.	Pre	10	10	0	0	0	0	1	6	13	0	0	0	2	7	10
	Post	7	13	0	0	0	0	1	6	13	0	0	1	4	8	6
I have a strong desire to make a meaningful contribution to society through my research.	Pre	Not Asked				0	0	1	8	11	0	0	0	5	6	8
	Post	Not Asked				0	0	1	9	10	0	1	0	6	5	7
I can do research that benefits people.	Pre	Not Asked				0	0	4	9	7	0	0	0	7	5	7
	Post	Not Asked				0	0	2	7	11	0	0	0	3	9	7
I can do research that helps my community.	Pre	Not Asked				0	0	5	8	7	0	0	0	4	8	7
	Post	Not Asked				0	0	2	8	10	0	0	0	4	8	7
If I became a researcher, I could make a meaningful contribution to the society.	Pre	Not Asked				Not Asked					0	0	0	2	5	12
	Post	Not Asked				Not Asked					0	0	0	3	8	8
A career in research would be a good way for me to help people.	Pre	10	9	1	0	0	0	4	9	7	0	0	0	2	11	6
	Post	6	13	1	0	0	0	3	11	6	0	1	0	2	10	6
COMMUNITY																
I am a member of a research community. [†]	Pre	Not Asked				0	5	11	3	1	0	1	1	7	7	3
	Post	Not Asked				0	0	0	7	13	0	0	0	2	9	8
I am making a contribution to a research group.*	Pre	4	15	1	0	0	5	5	9	1	0	1	2	6	9	1
	Post	6	12	2	0	0	0	2	5	13	0	0	1	4	6	8
I am a small part of a group of researchers. [†]	Pre	4	13	2	1	0	4	4	11	1	0	0	1	8	6	4
	Post	7	9	2	2	0	0	0	4	16	0	0	2	1	10	6
I am a part of a group of researchers. [†]	Pre	Not Asked				Not Asked					0	0	1	6	9	3
	Post	Not Asked				Not Asked					0	0	0	3	7	9
I am an important part of a group of researchers. [†]	Pre	2	14	3	1	0	1	10	8	1	0	0	1	10	6	2
	Post	5	12	3	0	0	0	6	6	8	0	0	0	4	7	8

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Supplementary Material 3 (continued).

ITEM		Year 1					Year 2					Year 3					
		Strongly Disagree	Disagree	Agree	Strongly Agree	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Strongly Disagree	Disagree	Slightly Disagree	Slightly Agree	Agree	Strongly Agree	
FIT																	
I would like to learn more about how to do research.	Pre	Not Asked					Not Asked					0	0	0	1	11	7
	Post	Not Asked					Not Asked					0	0	0	3	10	6
I would like to do research. [†]	Pre	16	4	0	0	0	0	0	11	9	0	0	0	2	9	8	
	Post	10	10	0	0	0	0	3	10	7	0	0	0	4	10	5	
I think a career in research may be a good fit for me. [†]	Pre	5	9	5	1	0	0	11	6	3	0	1	0	13	2	3	
	Post	6	10	4	0	0	0	13	5	2	0	0	2	7	5	5	
I am interested in research. [†]	Pre	6	13	1	0	0	0	6	9	5	0	0	0	3	12	4	
	Post	8	10	2	0	0	0	5	12	3	0	0	0	3	10	6	
I think a career in research could fit into my career plans. [†]	Pre	4	12	4	0	0	0	8	7	5	0	1	0	7	7	4	
	Post	6	12	2	0	0	0	11	7	2	0	0	2	6	7	4	
I would really like to research issues that are important to me.	Pre	14	6	0	0	0	0	0	5	15	0	0	0	4	4	11	
	Post	8	12	0	0	0	0	1	9	10	0	0	0	5	8	6	
My future career will probably be in research.	Pre	4	10	6	0	0	1	15	1	3	0	0	2	12	4	1	
	Post	3	12	5	0	0	1	14	3	2	0	1	1	7	7	3	
When I grow up I might like to work on a team of researchers.*	Pre	6	9	5	0	0	2	8	8	2	0	0	2	9	6	2	
	Post	5	10	5	0	0	0	10	6	4	0	2	0	4	9	4	
I think that research is an exciting field of study. [†]	Pre	7	13	0	0	0	0	7	8	5	0	0	1	6	6	6	
	Post	5	13	2	0	0	0	3	12	5	0	1	0	3	9	6	
I plan to follow my own research interests in the future.	Pre	2	16	2	0	0	0	10	7	3	0	1	0	13	4	1	
	Post	4	14	2	0	0	0	5	11	4	0	2	0	5	8	4	
A career in research would be a great choice for me. [†]	Pre	6	6	8	0	0	0	16	3	1	0	1	2	10	4	2	
	Post	5	10	5	0	0	1	12	5	2	0	2	1	5	6	5	
I plan to get a research-related degree in college.	Pre	4	9	7	0	0	1	14	4	1	0	1	1	13	4	0	
	Post	4	9	7	0	0	0	13	4	3	1	2	0	7	5	4	
I would like to learn more about research.	Pre	Not Asked					0	0	1	10	9	0	0	0	4	6	9
	Post	Not Asked					0	0	1	13	6	0	1	0	3	8	7
I think research is interesting.	Pre	Not Asked					0	0	2	10	8	0	0	1	5	6	7
	Post	Not Asked					0	0	3	8	9	0	0	0	4	9	6
I think research is an engaging field of study.	Pre	Not Asked					0	0	3	9	8	0	0	0	4	8	7
	Post	Not Asked					0	0	2	11	7	0	1	0	3	9	6
A career in research is a great way for me to help my community.	Pre	7	12	0	1	0	0	3	8	9	0	0	1	3	6	9	
	Post	4	15	1	0	0	0	1	6	13	0	0	1	2	8	8	

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Supplementary Material 3 (continued).

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SELF																
My friends see me as someone who is interested in research.	Pre	4	11	4	1	0	3	10	6	1	1	2	2	11	3	0
	Post	4	10	6	0	0	3	9	5	3	1	2	0	6	6	4
My friends see me as a researcher.	Pre	1	12	7	0	0	3	15	2	0	1	1	5	8	4	0
	Post	3	12	5	0	0	4	9	5	2	0	2	1	5	6	5
I have the basic skills to help do research.	Pre	7	13	0	0	0	0	5	11	4	0	0	1	7	7	4
	Post	8	12	0	0	0	0	1	8	11	0	0	0	1	11	7
I can do research tasks with help from others.	Pre	8	11	1	0	0	0	2	14	4	0	0	0	1	11	7
	Post	8	11	0	1	0	0	3	6	11	0	0	0	1	9	9
I have the skills to help do research.	Pre	7	12	1	0	0	0	6	10	4	0	0	1	4	11	3
	Post	7	13	0	0	0	0	2	9	9	0	0	0	1	10	8
I have the skills to conduct research on my own.	Pre	3	11	5	1	0	3	7	8	2	0	1	1	9	7	1
	Post	4	13	3	0	0	0	4	11	5	0	0	2	4	7	6
I can assist a researcher in his/her work.*	Pre	2	9	8	1	0	0	3	15	2	0	0	0	10	5	4
	Post	2	5	11	2	0	0	1	10	9	0	0	0	4	7	8
I am beginning to consider myself a researcher.†	Pre	0	13	7	0	0	3	11	5	1	0	0	3	10	4	2
	Post	8	9	3	0	0	0	4	10	6	0	0	0	5	10	4
The researcher part of my identity is important to me.	Pre	Not Asked				Not Asked					0	1	1	8	9	0
	Post	Not Asked				Not Asked					0	2	0	6	7	4
I see myself as a researcher.†	Pre	4	8	8	0	0	4	9	6	1	0	1	1	14	3	0
	Post	5	12	3	0	0	0	4	10	6	0	0	0	9	5	5
I am comfortable saying I am a researcher.†	Pre	2	12	5	1	1	5	6	4	4	0	0	4	8	6	1
	Post	2	13	4	1	0	0	5	9	6	0	1	1	4	5	8
Being a researcher is one aspect of who I am.†	Pre	2	11	7	0	0	3	12	4	1	1	0	2	12	4	0
	Post	5	11	4	0	0	1	5	9	5	0	1	1	4	6	7
I consider myself to be a professional researcher.†	Pre	0	7	10	3	1	8	9	1	1	3	2	8	5	1	0
	Post	1	7	10	2	0	5	7	5	3	1	3	1	4	6	4
I consider myself a researcher.	Pre	Not Asked				0	0	10	9	1	0	0	1	14	2	2
	Post	Not Asked				0	0	4	9	7	0	2	0	3	9	5
I have the skills to conduct research.	Pre	Not Asked				0	1	5	10	4	0	0	2	8	7	2
	Post	Not Asked				0	0	4	9	7	0	1	0	4	7	7
I can research issues independently.†	Pre	2	16	2	0	0	2	7	7	4	0	0	1	7	9	2
	Post	6	13	1	0	0	0	6	10	4	1	0	0	6	6	6

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