## Alignment of Research Questions, Constructs, and Data Sources for a Youth Media Program (NSF)

			DATA SOURCES										
RESEARCH QUESTIONS		Constructs	Interviews with Program Staff	Classroom Observation	Focus Groups with Students	Program Evaluations**	Rubric Ratings of Skill** (i.e., Session Evaluations)	Artifacts (i.e. class work)**	Peer Mentor Rating Scale	Interviews with Peer Mentors	STP Assessment	Participant Surveys	
Formative assessment	Are the program components and activities of the Science and Technology Program (STP) being implemented as planned?	Integrity of implementation, supports, barriers, intended vs. enacted curriculum	~	~	~	~							
	What is the impact of participating in the STP Digital Technology Institute on participant media and technology engineering craft skills and competence?	21st Century Skills as applied to production and media literacy					~	~	~		~		
	What is the impact of STP Science Desk on the development of participant journalistic skills, deepened understanding of science issues, and broader community awareness?	Media literacy, science content knowledge, social responsibility/community awareness, science-in- society knowledge					~	,	,		,		
Summative assessment	What is the impact of the STP peer-mentoring program on the development of mentoring skills and responsibility of peer mentors?	Pedagogical content knowledge, interpersonal skills, empathy				~			~	~			
	What is the impact of the STP program on the interest and engagement of participants in STEM activities, courses-of- study, and careers?	Attitudes toward science and technology, awareness of and interest in science careers										,	
	What is the impact of all of the aforementioned features (i.e., skills, knowledge, mentoring and interest) over time? For instance, are there different levels of interest that emerge among students and different tracks that they take? What does attention to STEM issues look like over the course of the program?	Change over time, behaviors related to exposure to science (e.g., course of study choices, career interests, attention to science in the news, etc.)					~	,	,	,	,	~	

<sup>\*\*</sup> Existing instrument in use by the youth media program

Focus	Research Questions	Instruments and Data Sources											
J.													
Project Component													
8													
Materials and resources													