20 Skills That Make STEM Click

Planning STEM Learning Experiences	◯ Selecting STEM Activities	Find and select STEM activities that fit your program's structure, resources, and needs.
	◯ Preparing Yourself to Facilitate STEM	Feel confident leading STEM activities.
	◯ Maximizing Your Space	Create spaces that encourage youth engagement in STEM activities.
	◯ Creating a Safe Space	Promote a supportive, respectful, and relaxed environment that welcomes students' individuality.
	◯ Connecting with Community Partners	Connect your program and youth to community partners to enhance STEM programming.
Interacting with Youth During STEM	◯ Sparking Interest in STEM	Foster interest, wonder, and excitement in understanding science concepts and developing science and engineering process skills.
	◯ Connecting to Prior Knowledge & Experiences	Connect STEM activities to knowledge and experiences that are relevant to youth's lived experiences.
	◯ Embracing Active STEM Learning	Facilitate STEM activities that allow youth to use their creativity and curiosity to explore and generate their own understanding.
	◯ Giving Youth Control	Empower youth to direct and manage their own learning.
	◯ Asking Purposeful Questions	Ask open-ended, purposeful questions to increase youth learning in STEM.
	◯ Group Management During STEM	Use effective strategies to manage individual and group behavior during STEM activities.
	◯ Encouraging Collaborative STEM Work	Encourage youth to collaborate and cooperate to solve problems and build explanations.
	◯ Making Authentic Assessments of STEM Learning	Observe, listen, and ask youth questions to evaluate what youth learn before, during, and after STEM activities.
	◯ Reflecting and Processing STEM Experiences	Facilitate youth reflection on the STEM learning experience to develop their own understanding of STEM concepts.
Building STEM Skills in Youth	◯ Supporting Testing & Retesting	Encourage youth to test, redesign, and optimize their ideas to reinforce the understanding that it is okay to fail and to learn from failure.
	◯ Modeling Science & Engineering Processes	Create opportunities for youth to practice the processes of science and engineering.
	◯ Helping Learners Develop & Expand Explanations	Facilitate STEM activities that allow youth to develop, evaluate, and expand their explanations and design solutions.
	◯ Supporting Documentation of STEM Learning	Encourage youth to document their STEM learning through drawings, models, diagrams, charts, tables, journals, and sketches.
	◯ Developing Science & Engineering Identity	Engage youth as learners, users, and contributors to the fields of science and engineering to develop a STEM identity.
	◯ Making Connections to STEM Careers	Present STEM career pathways, representative STEM role models, and connect the STEM skills they are using to the real world.