

Professional Development Situation: Meeting

Skill Focus: Making Connections to STEM Careers

Time Required: 30 minutes

IDENTIFYING MY IDEAS ABOUT STEM CAREERS

Participants will match their assumptions about STEM with a list of careers to learn how to connect activities to STEM careers.

Agenda

See the Skill in Action—10 minutes

- [Like a Real Engineer!](#) video-based learning module

Hands-on Learning: What is STEM? —15 minutes

- [STEM Careers List](#)

Conclusion—5 minutes

Materials

- Computer with internet connection
- Projector and speakers
- Blank paper for participants
- [Like a Real Engineer!](#) video-based learning module
- One copy of [STEM Careers List](#) for each participant

Before the Session

- **Read this meeting guide** to become familiar with the content and allow time to personalize the activities to best suit your presentation style. Watch all videos and read informational materials.
 - *Italics indicate text that can be read aloud or emailed to participants.*
- Send reminder email about the meeting. Determine if any participants require accommodations (sight; hearing; etc.).

- *The next professional development opportunity to enhance our STEM skills will be on DATE at TIME at LOCATION. Our focus for this session will be “Making Connections to STEM Careers”. Let me know if you require any accommodations to participate in the training. I am happy to answer any questions you have and look forward to seeing you at the workshop. I can be reached at CONTACT INFO.*
- Gather all materials needed for the session.
- Develop a list of possible questions participants might have during the meeting. Create potential responses to be explored through informal conversation. Review any key terms or ideas that may be unclear.
- On the day of the session, test the audio and video equipment.

Session Outline

See the Skill in Action (10 min)

- Greet participants as they arrive. Make sure everyone feels welcome and comfortable.
- Introduce yourself and the focus of the session: “Making Connections to STEM Careers”.
- Show the skill video in Step 3 [Like a Real Engineer!](#) video-based learning module
- Debrief. Ask:
 - *What did you observe in the video?*
 - *What did the guest do to alert youth to engineering careers?*
- Watch the video a second time and ask the facilitation questions again.

Hands-On Learning: What is STEM? (15 min)

- Distribute blank paper.
- Have participants fold the paper so that there are four sections or quadrants.
- Review what STEM is and have participants put one of the letters in each quadrant for “Science,” “Technology,” “Engineering,” and “Math.”
- In each quadrant, ask participants to draw a symbol, emoji, or picture that corresponds to skills needed for that area of STEM. Allow five minutes for participants to complete this.
- Pass out a [STEM Careers List](#) to each participant.
- Ask participants to choose their “top five” careers for each quadrant of their paper.
 - *You will now select up to five jobs for science, engineering, math, and technology and write them in the corresponding boxes. Look through the list and take seven minutes to do this.*

- Have participants compare their careers for S, T, E, and M with each other. This is a chance to review their beliefs about what science, technology, engineering, and math jobs entail.

Conclusion (5 min)

- Ask participants what might be stereotypical about their papers.
 - *Did everyone put “computer programmer” in the technology category?*
 - *Did anyone put “stock clerk” on the page at all? Why might we? Why didn’t we?*
- Do another round where participants think outside the box to understand how STEM reaches into many career pathways.
 - *This activity wasn’t designed as a trick, but rather to help us question our assumptions about what STEM is and **who** does STEM every day. Challenge students to see themselves as doers of STEM.*

After the Session

- Email the participants:
 - *Thank you for your participation in the recent Click2Science training on “Making Connections to STEM Careers”. I hope you found it useful and applicable to your practice. I am attaching the [STEM Careers List](#) handout for you to use with your students or other staff. Consider sharing your thoughts with a co-worker, supervisor, or friend. Please let me know if you have any questions. You can reach me at CONTACT INFO.*

Want to Earn Credit? Click2Science has teamed up with Better Kid Care to provide continuing education units. Check it out at: <http://www.click2sciencepd.org/web-lessons/about>

STEM Careers List

Animal Trainer	Desktop Publishing Specialist	Travel Agent
Pet Shop Operator	Telecommunications Technician	Nutrition Counselor
Wildlife Biologist	Technician	Preschool Teacher
Baker	Line Repairer	Youth Program Director
Agronomist	Computer Programmer	Truck Driver
Food & Drug Inspector	Artist	Call Center Specialist
Grocery Manager	Fashion Designer	Data Analyst
Commercial Fisherman	Legal Secretary	Software Architect
Ecologist	Medical Transcriptionist	Video Game Designer
Geologist	Postal Service Clerk	Network Architect
Park Manager	Product Manager	Guard
Farmer/Rancher	Insurance Adjuster	Probation Officer
Golf Course Supervisor	Hospital Manager	Detective
Nursery & Greenhouse Worker	Flight Attendant	Judge
Tree Trimmer	Human Resource Manager	Computer Forensic
Welder	Fund Raiser	Appliance Repairer
Equipment Operator	Event Manager	Small Engine Repairer
Brick Mason	Retail Salesperson	Electrical Engineer
Carpenter	Teacher	Locksmith
Painter	Counselor	Etcher
Plumber	Coach	Engraver
Architect	Nanny	Jeweler
Interior Designer	Massage Therapist	Woodworker
Landscape Architect	Personal Trainer	Automotive Designer
Janitor	Accountant	Production Line Worker
Film & Video Editor	Banker	Laboratory Technician
Lighting Expert	Bank Teller	Medical Researcher
Sound Engineering Technician	Appraiser	Pathologist
TV/Film Producer	Security Expert	Genetic Counselor
Announcer	Intelligence Officer	Medical Research Technician
Motor Vehicle Inspector	Military Serviceperson Pilot	Nurse
Dancer	Navigator	Physician
Actor	Housekeeper	Dentist
Graphics & Printing Equipment Operator	Lifeguard	Emergency Medical Technician
	Wait Staff	Dental Hygienist

Home Health Aid
Physical Therapist
Veterinarian
Pharmacist
Stock Clerk
Warehouse Manager

Telemarketer
Product Planner
CAD/CAM Drafter
Electrical Engineer
Civil Engineer
Automotive Servicer

Bicycle Repairer
Recycling Coordinator
Car Rental Clerk
Air Traffic Controller
Railroad Engineer
Bus Driver