

Professional Development Situation: Coaching

Skill Focus: Preparing STEM Learning Opportunities

Time Required: 20 minutes

CREATING A TO-DO LIST

Participants will create a detailed lesson plan to learn to prepare for STEM learning.

Agenda

Planning STEM Learning Opportunities—20 minutes

- [Extended STEM Planning Template](#)

Materials

- [Extended STEM Planning Template](#)
 - If conducting this session virtually, be sure the participant has access to these as well.

Before the Session

- **Read this coaching guide** to become familiar with the content and allow time to personalize the activities to best suit your presentation style.
 - *Italics indicate text that can be read aloud or emailed to the participant.*
- Send an email to the participant being coached:
 - *Our coaching session is scheduled for DATE at TIME. We will focus on “Preparing STEM Learning Opportunities”. **Please bring an idea for an upcoming STEM activity to this session.** Feel free to contact me with your questions or concerns at CONTACT INFORMATION.*
- Note: If possible, try to figure out what STEM activities are coming up in your program so you can gear this session toward preparing high-quality STEM learning with that particular activity.
- Gather all materials needed for the coaching session.

During the Session

Planning STEM Learning Opportunities (30 min)

- Hand out the [Extended STEM Planning Template](#). Ask the participant to think of an upcoming activity that they are planning to do with youth.
 - *Think of an activity you are doing soon with youth. We are going to think of a high-quality lesson to go with that activity that includes an introduction, a reflection, and strategies for including youth from different backgrounds.*
 - *We will also plan what needs to happen before the lesson is taught, including materials, organization, and setup.*
- Go step-by-step through the lesson planning template to complete it. If possible, make a copy of the plan to share with others on the team.
- At the end of the template, there is space for creating a to-do list. Spend time focusing the participant on the things that should be done to get ready to teach this lesson.
 - *What kinds of research will you want to do before you do this activity?*
 - *Have you tried this activity with these materials before?*
 - *Are there people you should talk to about how to make this activity go successfully?*
 - *What materials do you need to gather?*
- At the end of the planning session, ask the participant if this planning style was helpful for them.
 - *How did this planning process go for you?*
 - *Do you feel more prepared for this lesson?*
 - (Some may find it overwhelming at first, but emphasize that this template is just a framework to help support the planning process. Most experienced facilitators don't use the paper copy because they have this structure and these considerations in their mind at all times.)
- Finally, encourage the participant and share your excitement for the STEM learning that's about to happen.

After the Session

- Follow up with your participant to see how they are progressing on the skills they learned during the coaching session. Try to be supportive and helpful, not evaluative.

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>

Extended STEM Planning Template

Date:		# of Youth:	
Activity Name: I have tried this activity myself <input type="radio"/> yes <input type="radio"/> no		Age of Youth:	
1. Describe the space each youth will have to work:			
Attending to Equity			
2. How can you modify this activity for youth from different SES (socioeconomic/financial) backgrounds?			
3. How can you modify this activity for youth with learning disabilities?			
4. How can you connect this activity with the cultures of your youth?			
Learning Outcomes			
<i>STEM Practices</i>		<i>STEM Concepts</i>	
After this activity, youth will know <u>how to</u> :		After this activity, youth will know <u>that</u> :	
Lesson Design			
Introduction (Hook)			
_____ minutes		Materials needed for this step:	
Activity			
_____ minutes			
		Materials:	

Reflection _____ minutes	
	Materials:

To-Do List

In the space below, make a list of things to do before you teach this lesson.

Materials to Gather	Things to Prepare