

STEM Learning Ecosystem Videos

Reflection and Discussion Guide

OVERVIEW

Discussion prompts designed to accompany the STEM learning ecosystem video series and promote conversation and reflection between small teams or groups of professionals.

Gather a team or small group.

Together, watch one or more of the STEM Learning Ecosystem Video series and review this guide.

After each video, spend about 10-15 minutes together debriefing the content and making connections to your own work. Watching the videos and having the conversations can be done as one longer professional development session or you can sequence them in multiple viewing and discussion sessions over time.

Consider where you are now and where you want to be in the future.





Video Series https://www.nisenet.org/stem-learning-ecosystems-videos

- 1. What Are STEM Learning Ecosystems? (2 minutes)
- 2. Introduction to STEM Learning Ecosystems? (6 minutes)
- 3. Building and Supporting Strong Partnerships (7 minutes)
- 4. Engaging Everyone in STEM Learning (5 minutes)
- 5. Creating Authentic STEM Learning Experiences (7 minutes)



Watch Video # 1. What Are STEM Learning Ecosystems? (2 minutes)

con	lect: This introductory video provides an overview of STEM learning ecosystems. In the text of your work, what does a <i>more vibrant future</i> mean to you? (Jot down notes and ect for about 2-3 minutes.)
	re: Describe your vision for connecting learners and community members with your cussion group. (Try to keep your answer to less than a minute!)
	n: What's one next step you can take to deepen your connections with your community of M professionals and learners? (Develop an actionable statement you can hold yourself to.)



Watch Video # 2. Introduction to STEM Learning Ecosystems (6 minutes)

Reflect. Share. & Plan

Reflect, Share, & Plan
Reflect: What are some characteristics of STEM learning ecosystems that resonate with you? Reflecting back on your own learning pathway and experience, who are some of the people, programs, or organizations who helped you find your way? (Jot down notes and reflect for about 2-3 minutes.)
Share: Describe these personal experiences and your reflections to your discussion group. (Try to keep your answer to less than a minute!)
Plan: How could or do you implement some of the principles of STEM learning ecosystems in your projects? What next steps can you take to move that work forward? (Develop an actionable statement you can hold yourself to.)



Watch Video #3. Building and Supporting Strong Partnerships (7 minutes)

Reflect, Share, & Plan

physical and biological environment important to your work? (Jot down no about 2-3 minutes.)	ics and reflect for
Share: Describe how you think about and work within these relationships, place-based environments to your discussion group. (Try to keep your answ minute!)	
Plan: What distinguishes STEM learning ecosystems from other kinds of pabeen part of? How might you borrow from the concepts presented in the value build, and develop new partnerships in your community? (Develop an action can hold yourself to.)	video to imagine,



Watch Video #4. Engaging Everyone in STEM Learning (5 minutes)

Reflect, Share, & Plan

Reflect: Belonging refers to the feeling of being connected to a community, place, or situatio
and being supported and welcomed there.

and being supported and welcomed there.
Where do you, your work, and your teams have room to grow in cultivating a sense of belonging? (Jot down notes and reflect for about 2-3 minutes.)
Share: How might you use the concepts shared in this video to help you change your work and approach? (Try to keep your answer to less than a minute!)
Plan: Describe one thing you can do to intentionally improve or change some of your partnership practices to cultivate a sense of belonging. (Develop an actionable statement you can hold yourself to.)



Watch Video #5. Creating Authentic STEM Learning Experiences (7 minutes)

Reflect, Share, & Plan

Reflect: How do the STEM engagement experiences that we offer conner opportunities in your community or ecosystem? How are your experience people and places? How do they incorporate authentic STEM content? Factive learning? (Jot down notes and reflect for about 2-3 minutes.)	ces relevant to local
Share: Thinking from a STEM learning ecosystems perspective, share you are doing well and where you can improve your work. (Try to keep y a minute!)	
Plan: How can the practices shared in these videos and your own learning and plan? What kinds of knowledge, principles, and practices could help and engage our communities? (Develop an actionable statement you can	you improve your work



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Photo of professionals in conversation, Catherine McCarthy for the NISE Network



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