

***Learning Environments and Tasks for Collaboratively Generating  
Disciplinary Principles: A sample from Physics and Everyday Thinking***

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In this session, participants experience an activity from the Physics and Everyday Thinking (PET) Curriculum. No authoritative textbook is needed for a PET course. Instead, students abstract principles about the natural world on the basis of their guided, shared observations and sanction these principles through consensus discussions. Session participants will collect and interpret evidence about the natural world and analyze video of elementary and high school students and prospective teachers. The session goal is for participants to generate a set of design principles for establishing relevant tasks together with a social and material learning environment that supports students in the development of models and discipline-specific principles.