



How Do We Bring 3-Dimensional Learning into Our Classrooms? 5 Questions/Classroom Routines

Question	Routine	Elements			
How do we kick off investigations in a unit?	<i>Anchoring Phenomenon Routine</i>	Explore Anchoring Phenomenon	Attempt to Make Sense	Identify Related Phenomena	Develop Questions & Next Steps
How do we work with students to motivate the next step in an investigation?	<i>Navigation Routine</i>	Lesson ◀◀ Looking Back • Where did we leave off? Looking Forward ▶▶ • What are we trying to figure out? • How can we work on this today?		Lesson ◀◀ Looking Back • What have we agreed on? • Where are we not sure? Looking Forward ▶▶ • Where should we go next?	
How do we help students use practices to figure out pieces of the science ideas?	<i>Investigation Routine</i>	Questions	Phenomena	Use Practices	What We Figure Out
					Pieces of DCIs Pieces of CCCs New Questions & Next Steps
How do we push students to go deeper and revise the science ideas we have built together so far?	<i>Problematizing Routine</i>	Questions	Phenomena	Use Practices	What We Figure Out
How do we help students put together pieces of the disciplinary core ideas and crosscutting concepts?	<i>Putting Pieces Together Routine</i>	Questions	Phenomena	Use Practices	What We Figure Out