



How Do We Bring 3-Dimensional Learning into Our Classrooms? Five Questions and Classroom Routines

Question	Routine	Elements
How do we kick off investigations in a unit?	Anchoring Phenomena	Explore Anchoring Phenomenon Attempt to Make Sense Phenomena Bevelop Questions & Next Steps Phenomenon Related Phenomena Phenomena Phenomena Related Phenom
How do we work with students to motivate the next step in an investigation?	Navigation	 ✓ Looking Back Where did we leave off? Looking Forward ► Looking Forward ► Where should we go next?
How do we help students use practices to figure out pieces of the science ideas?	Investigation	Questions Phenomena Use 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?	Problematizing	Questions Phenomena Use Practices Figure Out VS. VS. VS.
How do we help students put together pieces of the disciplinary core ideas and crosscutting concepts?	Putting Pieces Together	Questions Phenomena Use Practices What We Figure Out All prior phenomena







A Storyline Uses the Five Classroom Routines in Combination to Support Coherence for Students



