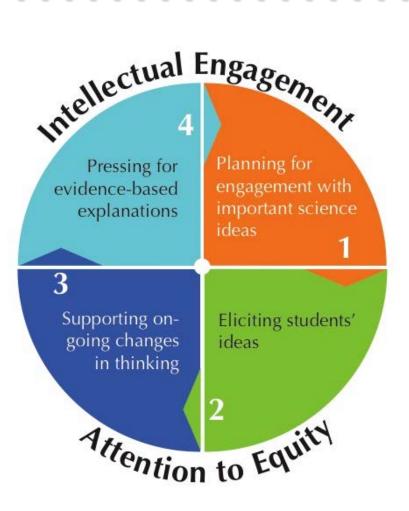


Building a repertoire of literacy support practices

Lindsay Berk & Mark Windschitl





The bigger picture: What do students need in order to participate in knowledge production?



Ambitious Science Teaching

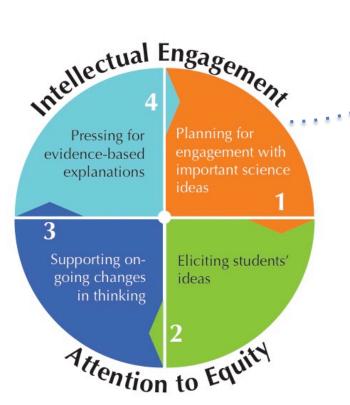
- Relevant and compelling contexts for seeking out and evaluating new information
- Skills with variety of public representations that make their ideas visible and show how new information is being made sense of
- Scaffolds and specialized routines for reading texts, preparing to write about explanations and evidence
- Time and opportunity for all learners to participate in the on-going refinement of ideas.





Planning for engagement with important science ideas





Relevant and compelling phenomena – complex to explain





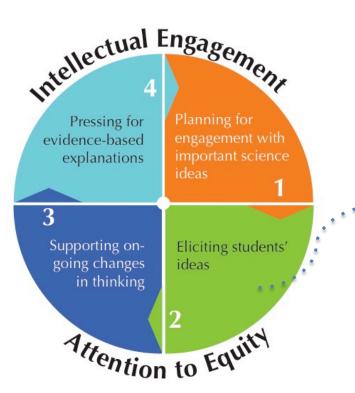




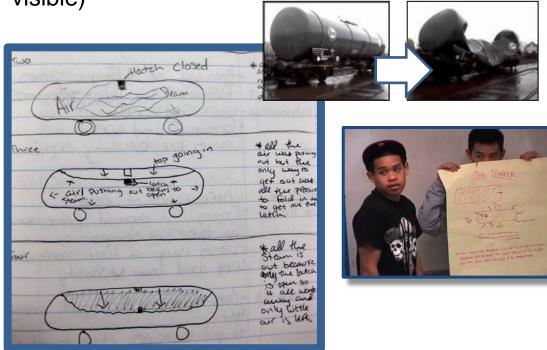
2

Eliciting students' ideas and adapting instruction





Helping students communicate in forms distinctive to science (and making thinking visible)



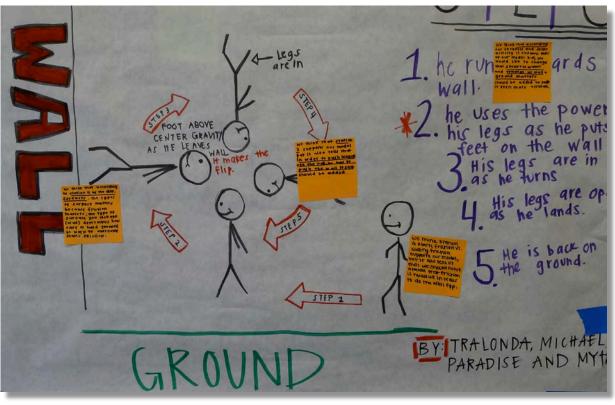


Eliciting students' ideas and adapting instruction







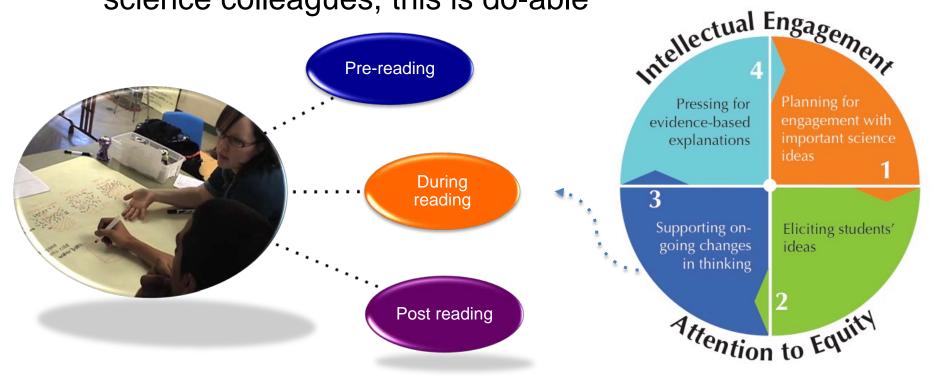




Supporting on-going changes in thinking



Scaffolded reading experiences—"Dear science colleagues, this is do-able"

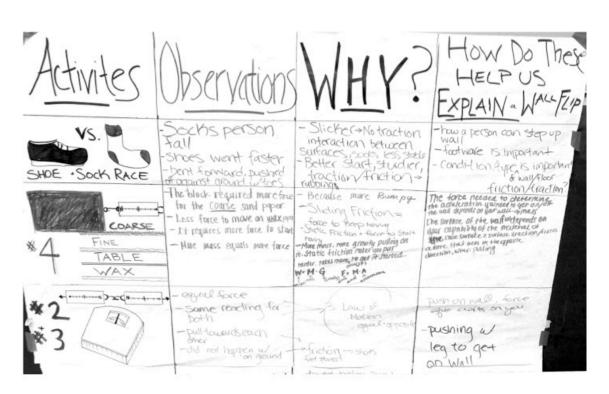




Supporting on-going changes in thinking



After reading, activity, investigations—returning to models and explanations



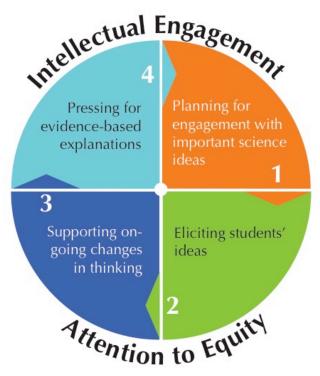
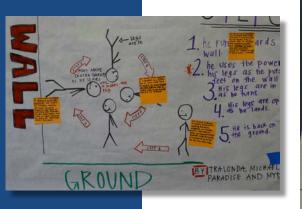


Figure 6c. Students' summary table to make sense of and coordinate D2 activities



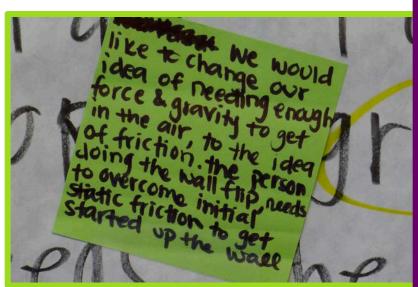
Scaffolding writing about model revisions

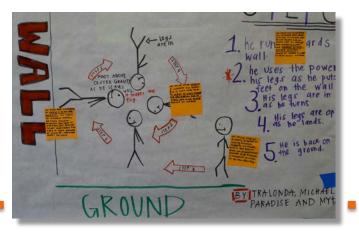


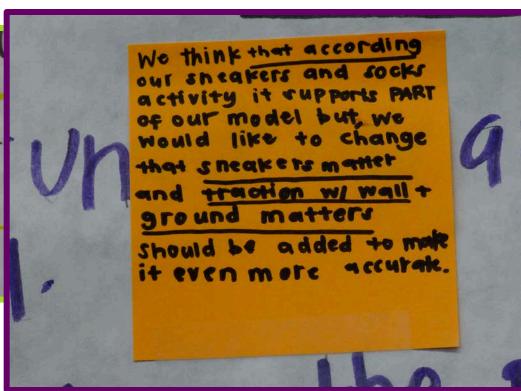
REVISE Part of an idea:	"We think (evidence from sunnary table) supports PART of our model, but we would like to change to make it more accurate."
ADD a <u>New</u> idea:	"We think (evidence from summary table) Supports our model, but it also tells us that should be added to make it even more accurate."
REMOVE or find out More:	"We think (evidence from summary table) contradicts in our original Model, and that we need to remove or findout More about it."
QUESTIONS:	"We still have guestions about"

Slowing down, providing time to think and compose feedback to peers







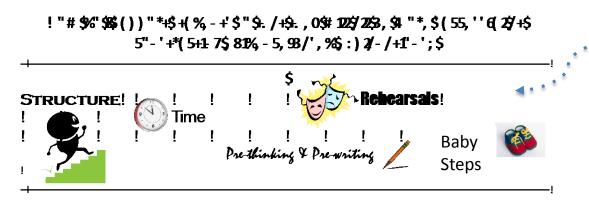


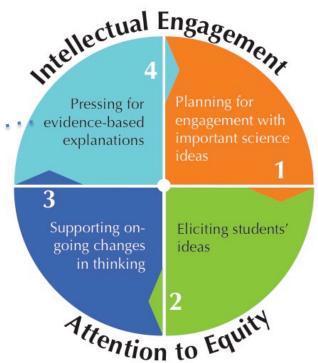


Pressing for evidence-based explanations



Scaffolds for writing about causal and evidence-based explanations—drawing in multiple ideas and activities to fashion arguments





Supportive structures to encourage explanatory writing



