Overarching Structures for Productive Discussions in Science

Anticipating – "Doing the Science" to Plan

Monitoring the Learning

Selecting and Sequencing Student Strategies and Ideas

Connecting Concepts and Student Ideas

High-Leverage Teaching Routines in Science

- Productive Classroom Culture
 - > Habits of Interaction and Practice
 - Fostering a Growth Mindset
- Selecting and Implementing Worthwhile Science Tasks
- Accountable Talk
 - ➤ 5 Talk Moves (Restating, Revoicing, Adding On, Agree/Disagree and Why, Wait Time)
 - Structured Science Talk (Listen & Compare, Revoice and Compare, and Interpret & Compare)
- Effective Questioning
 - ➤ Teacher Generated Questions (Focus, Assessing, and Advancing)
 - Student Generated Questions
- Public Records and Anchor Charts
- Selecting & Sequencing Student Strategies and Ideas
- Using **Science Notebooks** Authentically