Science Teaching

- Instruction is supported by research that shows what works.
- Students learn by doing! (which incorporates scientific practices).
- Students work collaboratively.
- Students should be "figuring out" and not just being passive when building science knowledge (or any discipline).
- The Learning Cycle is a solid instructional model students explore before the explanation is completed.
- Allows time for students to reflect on what they are learning.
- Not all tasks are created equal. (Lower and high-level activities are used)

Things to Keep in Mind

The textbook and accompanying materials:

- Are good resources for the teacher (who may need help with the content)
- Are student friendly for those times they are used by students
- Contain student-centered approaches and activities
- Have a variety of task suggestions (labs that are not too scripted, activities which have students figuring out, activities with student choice and more than one solution path, activities that can be easily modified if needed)
- Scientific practices are part of the learning (integrated in activities and not taught separately)
- Questions are not just asking for rote memorization all the time but have students critically think through problems and apply when possible.