

# NGSS @ NSTA

## Preparing for the Next Generation Science Standards—Major Practices

### Session 6: Constructing Explanations and Designing Solutions

Tuesday, November 20, 2012

#### Reflection Questions

1. How do constructing explanations and designing solutions relate to the other scientific and engineering practices? In particular, what is the relationship between explanation and argumentation?
2. What are the differences between constructing an explanation and designing a solution? What are the similarities?
3. What challenges might students have in constructing explanations? What are some ways to address those challenges?
4. What are some strategies that teachers can use to help students improve their ability to construct explanations and design solutions?