

San Diego State University Supported by National Science Foundation Grant ESI-055494





Sampling

- 30 Reformed and 30 Traditional undergraduate science courses
- Randomly selected from the 103 diverse NOVA institutions, stratified by institution type
- 2 groups of science teachers randomly selected: Traditional & Reformed courses

















Further Study

- Determining how characteristics of reform may change for different contexts, different level of courses with varying environments and limitations
- Developing cognitive strategies that support students to make multi-level links to understand complex theories
- Prepare teachers to apply cognitive strategies which promote multi-level thinking and provide their students' tools for answering written extended-response questions

