**Teacher Work Sample**

**Alignment and Addendum for 2012 NSTA Pre-Service Science Standards**

In addition to the prompts contained within the *Teacher Work Sample* (TWS*) Guidelines and Directions,* science teacher candidates should ensure that the following are contained within each section.

1. **Contextual Factors** (addresses NSTA 2c)

* **Classroom factors**
  + Address how learning environment demonstrate chemical safety, safety procedures and chemical disposal, emergency procedures, and maintain ethical treatment of living organisms (as applicable). (NSTA 3d, 4a, 4b, 4c)

1. **Learning Goals** (addresses NSTA 1a, 1b, 1c)

* **TWS Prompt: Discuss why learning goals are appropriate in terms of development; pre-requisite knowledge, skills and other student needs.**
  + Within this discussion, teacher candidate might address naïve concepts, preconceptions and misconceptions that inform instructional planning. (NSTA 2C)

1. **Assessment Plan** (addresses NSTA 2c, 3c, 5a, 5b, 5c)

**4. Design for Instruction (**addresses NSTA 2c,

* **Activities:** 
  + Lesson designs should reflect a variety of inquiry approaches that engage students in collecting and interpreting data, develop and communicate concepts, understand scientific processes, relationships and natural patterns from empirical experiences. (NSTA 2a, 2b, 3a, 3b)
  + Description might include how you plan to maintain chemical safety, safety procedures and ethical treatment of living organisms (NSTA 3d, 4a, 4b, 4c)
* **Technology**
  + Description might include the use of science specific technology within lessons. (NSTA 1b; 2b)

1. **Instructional Decision Making** (NSTA 2a, 2b, 2c, 3a, 3b, 3c, 5a, 5b, 5c)

**6. Analysis of Student Learning** (NSTA 5a, 5b, 5c, 6)

**7. Evaluation and Reflection**

* **Professional Reflection** 
  + Professional learning goals might include professional development opportunities within field, action research, projects within community, etc. (NSTA 6a, 6b)