

**Teaching Science as Inquiry  
Indiana State University  
Summer Professional Development Workshop**

**Title:** Science in the Elementary School: An Inquiry-based teaching approach

**When:** June 15, 2020 – June 18, 2020

**Time:** 9am – 11am & 12pm – 2pm (4 hours per day)

**Place:** Center for Science Education, Science building S185, Indiana State University

**Instructor information:**

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**Workshop Description**

This 4-day summer teacher development workshop focuses on the development of science teaching competencies for elementary school teachers. The workshop content is designed to help teachers develop necessary knowledge, skills, and dispositions so they can implement inquiry based, developmentally appropriate science lessons in the K-6 classroom. Participants will engage in various hands-on activities and learn related science education theories. By attending this workshop, participants will be able to develop their own repertoire of resources for teaching elementary school science.

## **Topic/Schedule**

### Day1 (June 15, M)

9am-11am: NGSS and scientific practices, Science teaching models

12pm-2pm: Physics activities

### Day 2 (June 16, T)

9am-11am: Differentiated inquiry and problem based learning

12pm-2pm: Environmental Education activities

### Day 3 (June 17, W)

9am-11am: Modeling and argumentation in science

12 pm – 2pm: Chemistry activities

### Day 4 (June 18, Th)

9am-11am: Engineering and science

12pm-2pm: Earth and Space Science activities