

# Session 3

## Lead with a Question

*Goal for this session: Science begins with questions about the natural world. In this session you craft an investigation question that guides activities and discussions and leads students to a deeper understanding of a disciplinary core idea (DCI).*

### Study Guide

Download the [Study Guide \(pdf\)](#).



**Prepare** – See how a good investigation question shines a spotlight on a DCI and the practices students use to better understand the idea

1. Read *The Right Question at the Right Time* by Jos Elstgeest. What are key characteristics of “productive questions?”
2. Get to know the *Investigation Question Planning Tool (docx)*. Review the *Example (pdf)* filled-in tool for *Investigating Water Transformations Investigation 4, What does a drop of water weigh?*
3. Complete the *Investigation Question PLC Activity*.
4. See how *NGSS grade 5 performance expectations* help students formulate answers to **questions**. As students learn to answer these questions, they learn more about practices, crosscutting concepts, and DCIs described in the NRC *Framework*.



**Use the Planning Tool**

1. Select a lesson from your current curriculum.
2. Identify the learning goal.
3. Complete the *Investigation Questions Planning Tool*.



**Discuss in Your PLC**

With your colleagues, share your filled out planning tools. Discuss the benefits of using questions to frame your science lessons. Plan your next steps.