

PLC Pathway: 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

An online version of this study guide with links is available at <http://inquiryngss.terc.edu/>

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*. Review the *Example* 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 planning tools. Discuss the benefits of using questions to frame your science lessons. Plan your next steps.