**Teaching Science as Inquiry (TSI) Lesson Plan**

**Module 1: Physical Aquatic Science**

Name: *Terri Ewton*

Activity: *Soda Can*

Why did you choose to do this activity?

*We did Practices of Science as our 1st lesson. I used this activity to have students use the modes and disciplines of inquiry in their observations of this activity.*

What are your classroom learning goals?

*Students will be able to use the practices and demeanors of scientists to observe and experiment.*

How does this activity tie into your classroom learning goals?

*The activity plays perfectly into the goals mentioned above in that it gets students to reflect on their own thought processes, their own values, and their own practices. It creates curiosity to everyday objects as the relate to science.*

What date do you plan to start this activity?

*November 1st and 2nd.*

*If applicable:* HIDOE standards this lesson will address

**Ocean**

1. Describe how you will connect this activity to the ocean:

*I did not connect this activity to the Ocean.*

1. Select the Ocean Literacy Principle(s) that you anticipate this activity will address. (check all that apply)

□ 1. The Earth has one big ocean with many features.

□ 2. The ocean and life in the ocean shape the features of the Earth.

□ 3. The ocean is a major influence on weather and climate.

□ 4. The ocean makes earth habitable

□ 5. The ocean supports a great diversity of life and ecosystems.

□ 6. The ocean and humans are inextricably interconnected

□ 7. The ocean is largely unexplored

**Preparation**

1. How will you prepare your students for this activity? (For example, review of prior knowledge.)

*I reminded students of their previous activity, Practices of Science and asked them to use the demeanors of scientists in their observations, predictions, tests and sharing of information.*

1. Explain any instructional struggles that you foresee and how you will address these issues. (For example, student misconceptions, classroom discussion, aspects most difficult for students to grasp, etc.)

*We are challenged regarding some equipment and it is a challenge to get students to work in small groups. There are some who like to lead and others who prefer to chat. The challenge is getting them all to engage in the activity.*

1. Select the TSI Mode(s) of Inquiry that you will focus on for this activity. (check all that apply)

**Curiosity**

**Description**

Authoritative knowledge

**Experimentation**

**Product evaluation**

Technology

**Replication**

Induction

Deduction

Transitive Knowledge

**Questioning and Assessment Strategies**

1. What *questioning strategies* will you use to help your students meet your learning goals?

*Peer share, guided questioning, and the TSI activity plan*

1. What *assessment strategies* will you use to help your students meet your learning goals and monitor their progress?

*Activity questions as prepared by TSI*

Please provide any additional comments that will help you prepare to teach this activity or help the TSI facilitators understand how you plan to teach this activity.