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

**Module 1: Physical Aquatic Science**

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Activity: The Practices of Scientists

Why did you choose to do this activity?

I choose this lesson to create excitement / engagement.

What are your classroom learning goals?

My learning goals are:

1. Connect with the practitioners of science (scientists) so that students begin to identify with scientists and view them as real people
2. To learn how to think and act like a scientists

How does this activity tie into your classroom learning goals?

I want my students to realize the myths that the media portrays about scientists is not accurate and would like them to start thinking, acting and behaving like a real scientists.

What date do you plan to start this activity?

09/24/2012

*If applicable:* HIDOE standards this lesson will address

Scientific Investigation; Discover, invent, and investigate using the skills necessary to engage in the scientific process

**Ocean**

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

After the completion of this activity, I had each of my students verbally tell me what they thought an Oceanographer might look like.

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.

X□ 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.) No preparation was necessary for this activity.
2. 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.)

Students misconceptions about scientist. Most students believed in the stereotypical scientists model.

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

□ Curiosity

X□ Description

□ Authoritative knowledge

□ Experimentation

X□ Product evaluation

X□ Technology

□ Replication

X□ Induction

□ Deduction

□ Transitive Knowledge

**Questioning and Assessment Strategies**

1. What *questioning strategies* will you use to help your students meet your learning goals?I will implement AVID: Advancement Via Individual Determination

 [L. avidus] eager for knowledge strategies and methodologies.

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

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.

This lesson was easy to teach because it was a lot of fun for the students. Also, a great way to start the TSI series of lessons with. The students really liked drawing their scientists and really liked it when I posted their work on my wall. All my other science classes want to do the activity to.