

You See, But You Do Not Observe: Focusing Third Graders' Scientific Observation-Making

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• Three Lessons

- Salinity and Density
- Temperature and Density
- Blubber

- Lesson Plans
- Video Tape
 - My Introduction to the Lesson
 - Student Work





Comment Types

- 1. Everyday Observations (Eberbach and Crowley, 2009)
 - "That's bright red!"
- 2. Transitional Observations (Eberbach and Crowley, 2009)
 - "The red is much more dense."

- 3. Inferences (Hanuscin and Park Rogers, 2008)
 - "This is like a swimsuit for when you go scuba diving."
 - "The opposite colors all sank."

In what ways can I support the transition from students' everyday observations to more scientific observations and inferences?

Student Comment Types







1. Type of Focus Question

2. Small Group vs. Whole Class

3. Experiment Complexity



1. Focus question -Specific language -Key Words 2. Small Group -Discussion time -Everyone talks 3. Complexity -Different steps -Small details



 How do I help my students notice the difference between everyday and transitional observations?

"A Lemon of a Lesson" (Minogue, 2008)
What value is there in everyday observations?



"From Everyday to Scientific Observation: How Children Learn to Observe the Biologists World." Eberbach, C. & Crowley, K, E., (2009).

"Learning to Observe and Infer." Hanuscin, D, & Park Rogers, M. (2008)

"A Lemon of a Lesson." Minogue, J., (2008).