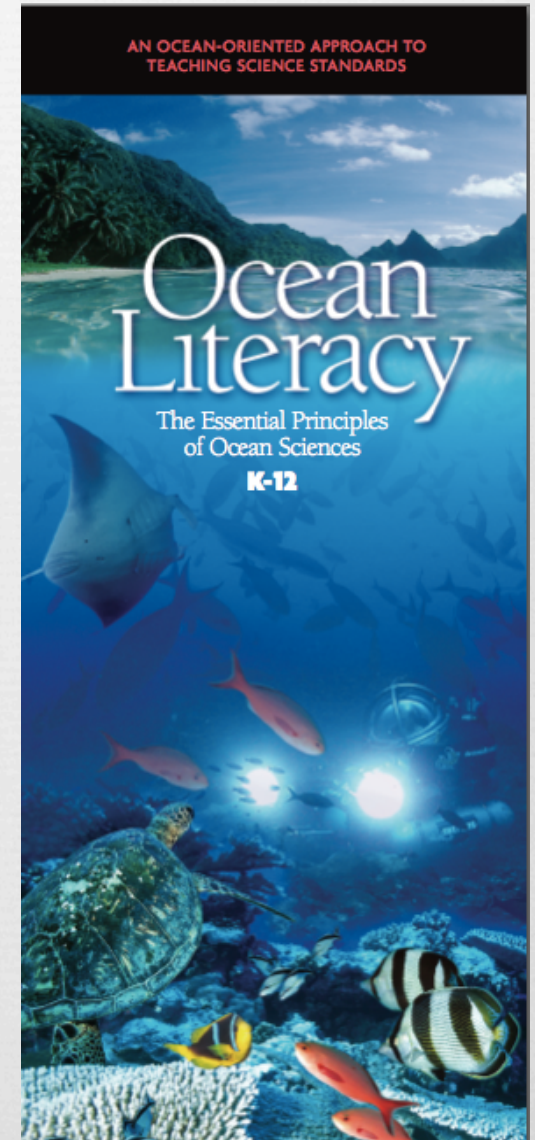
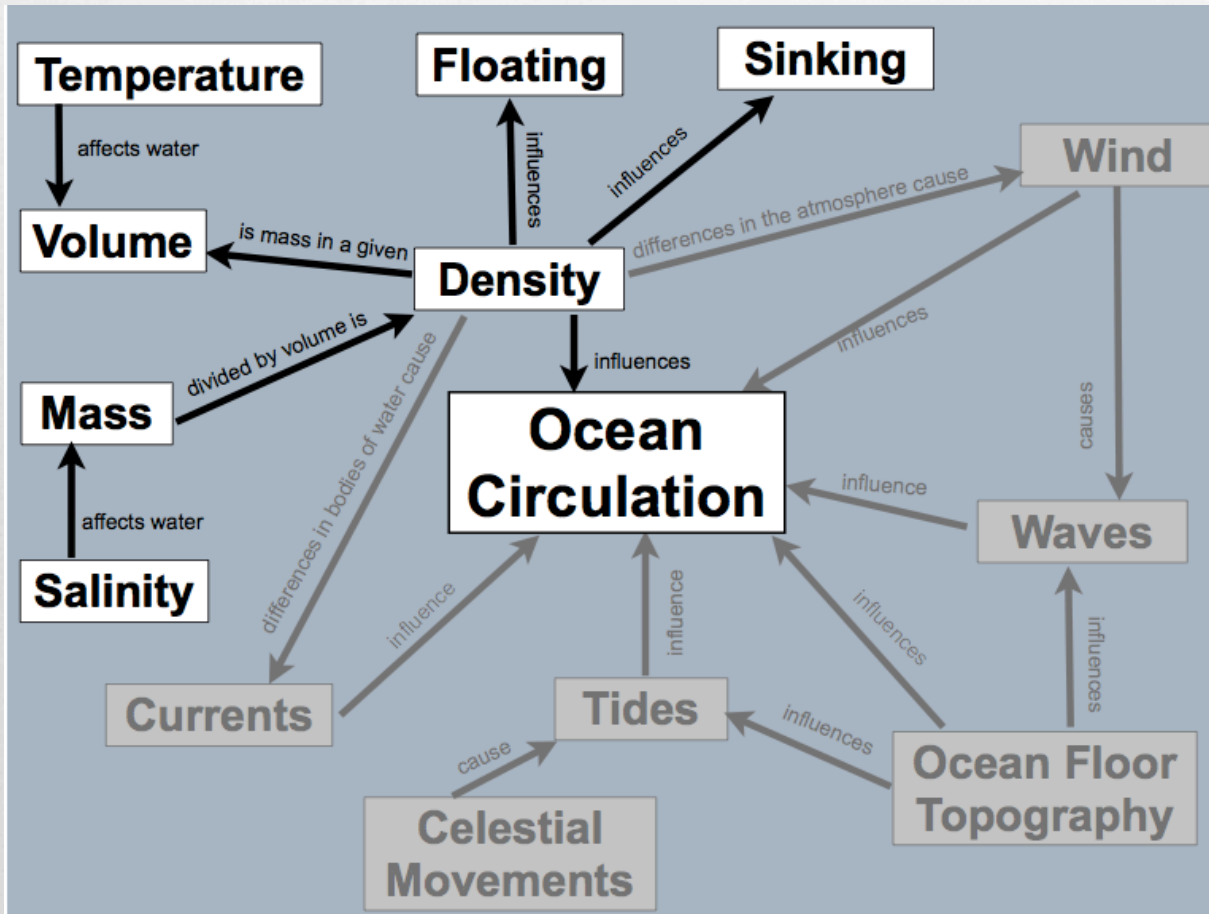


Dan VanRavenswaay
Assets High School



Marine Science class
does “Density Bags”

Ocean Connections



Implementation

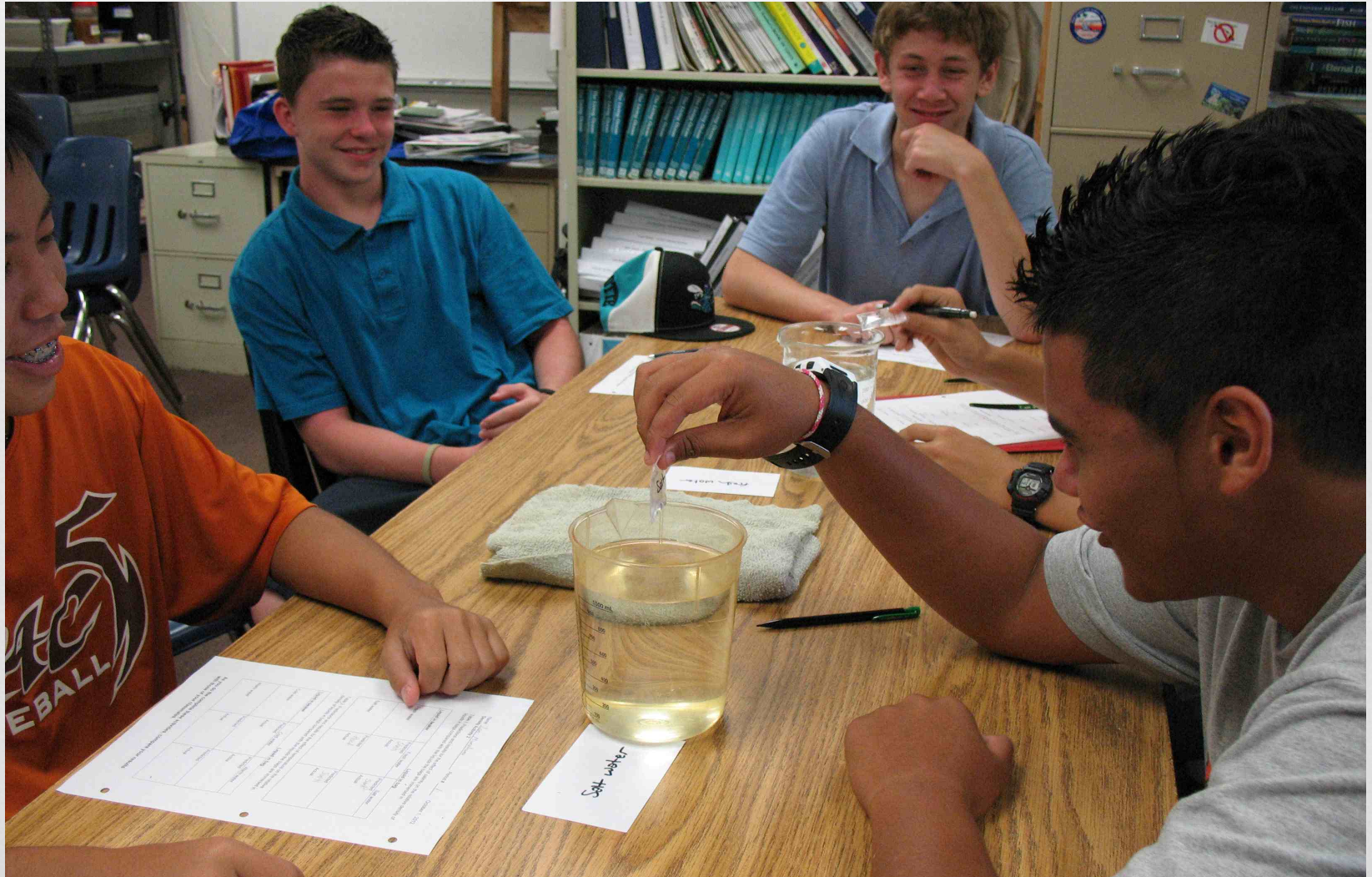
Table 1. Predictions and results for the effect of salinity on the relative density of liquids in bags compared with the liquids the bags are immersed in.

Liquid in beaker	Liquid in bag	
	Fresh water	Salt water
Fresh water	Predicted	Predicted
	Actual	Actual
Salt water	Predicted	Predicted
	Actual	Actual

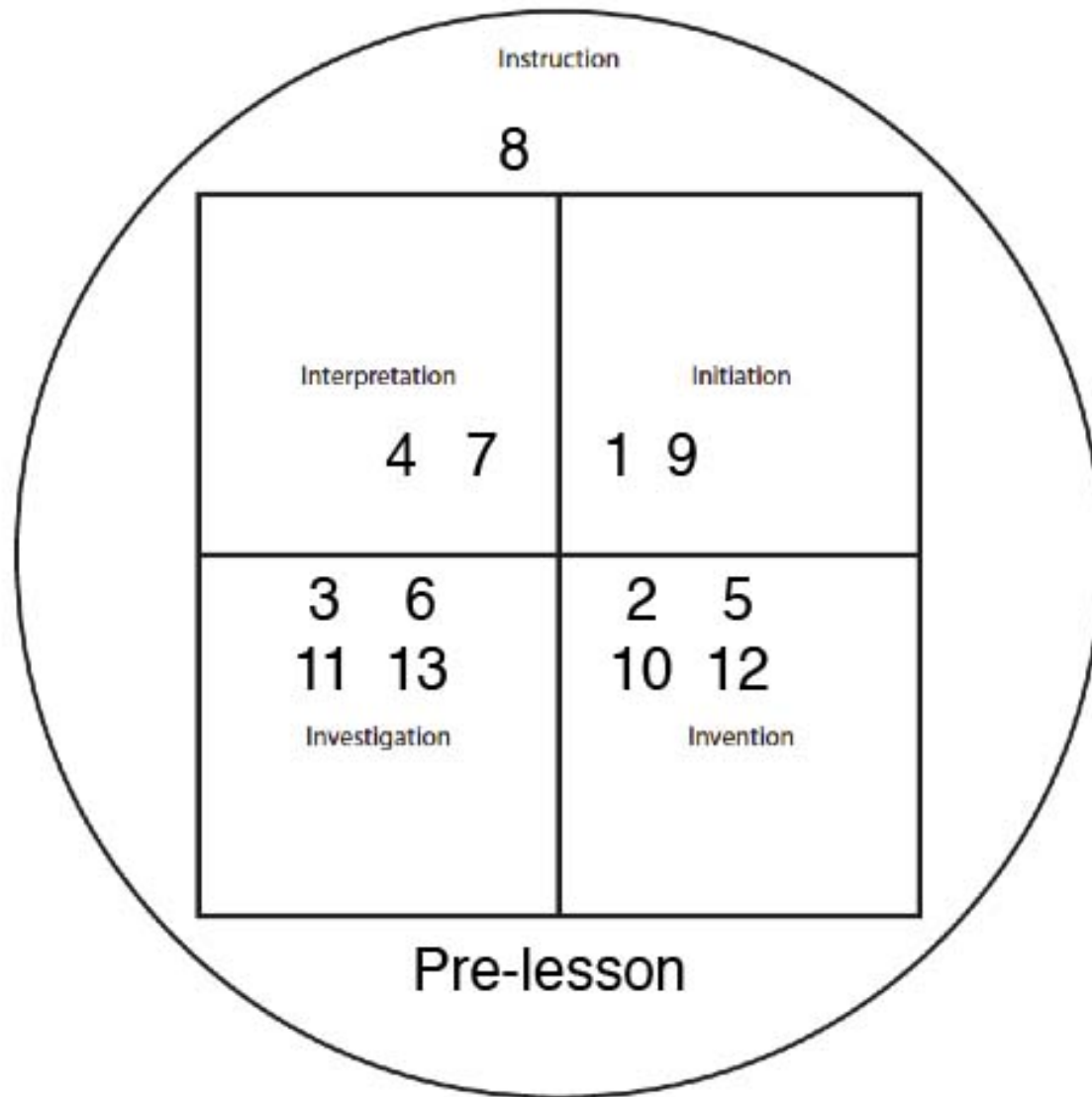
Table 2. Predictions and results for the effect of temperature on the relative density of liquids in bags compared with the liquids the bags are immersed in.

Liquid in beaker	Liquid in bag	
	Cold water	Warm water
Cold water	Predicted	Predicted
	Actual	Actual
Warm water	Predicted	Predicted
	Actual	Actual

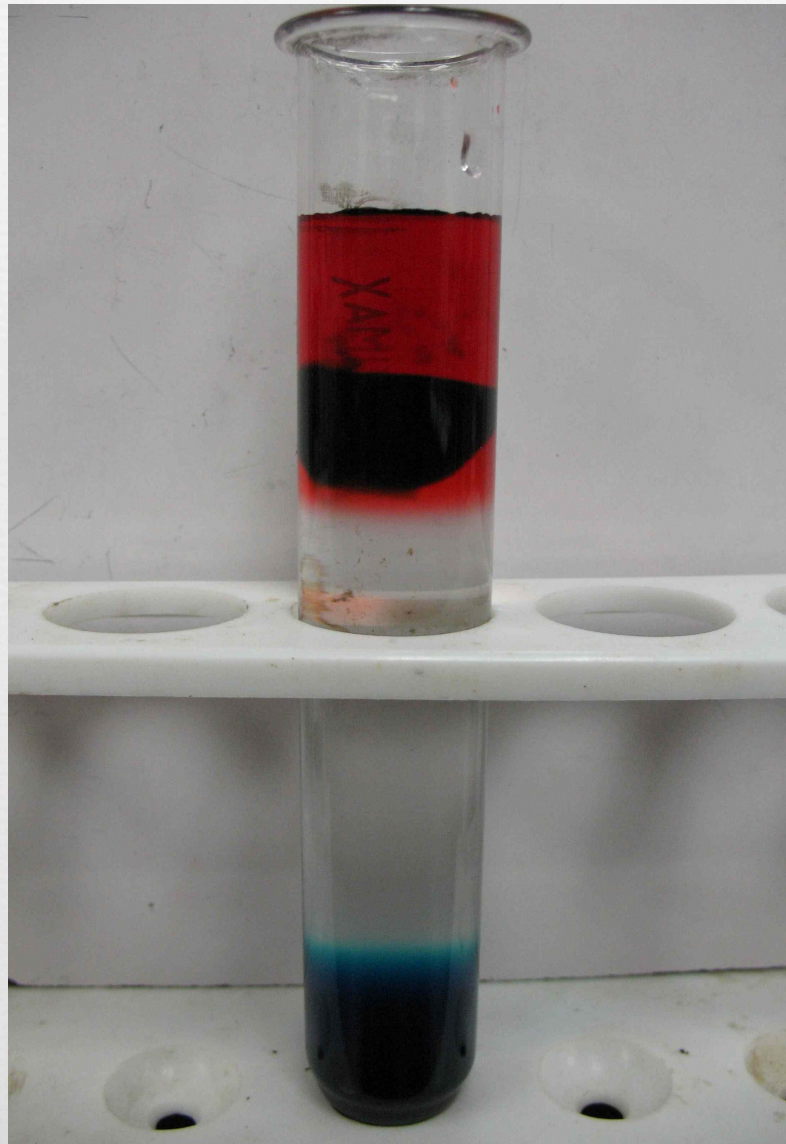
Implementation



TSI Inquiry Phases



TSI Inquiry Phase



TSI Pedagogy

Inquiry Modes	Description
<u>Curiosity</u>	An emotion that leads to natural inquisitive behaviors like exploration and questioning. A desire to know new things.
Description	Carefully and accurately describe things or events.
Authoritative knowledge	Consult books, websites, teachers, or peers who have expert knowledge.
<u>Experimentation</u>	Test predictions derived from hypotheses.
Product Evaluation	Weigh the pros and cons of different equipment, procedures, or products.
Technology	Make and test tools and techniques.
<u>Replication</u>	Duplicate something observed, heard about, or read. Test if something can be repeated.
Induction	Look at existing data to find patterns and relationships.
Deduction	Collect and analyze information to develop a hypothesis.
Transitive knowledge	Take knowledge from one field and apply it to another.

Misconceptions



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Activity Impression



❧ *Process & Content*

❧ *Evidence of Learning*

❧ *Impacts on the Instructor*

Final Thoughts

