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Science + Literacy = Learning!

NSTA Chicago

March 13, 2015

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Today's Agenda

What is DL?

So What does it look like in science classrooms?

Now What will you commit to doing?

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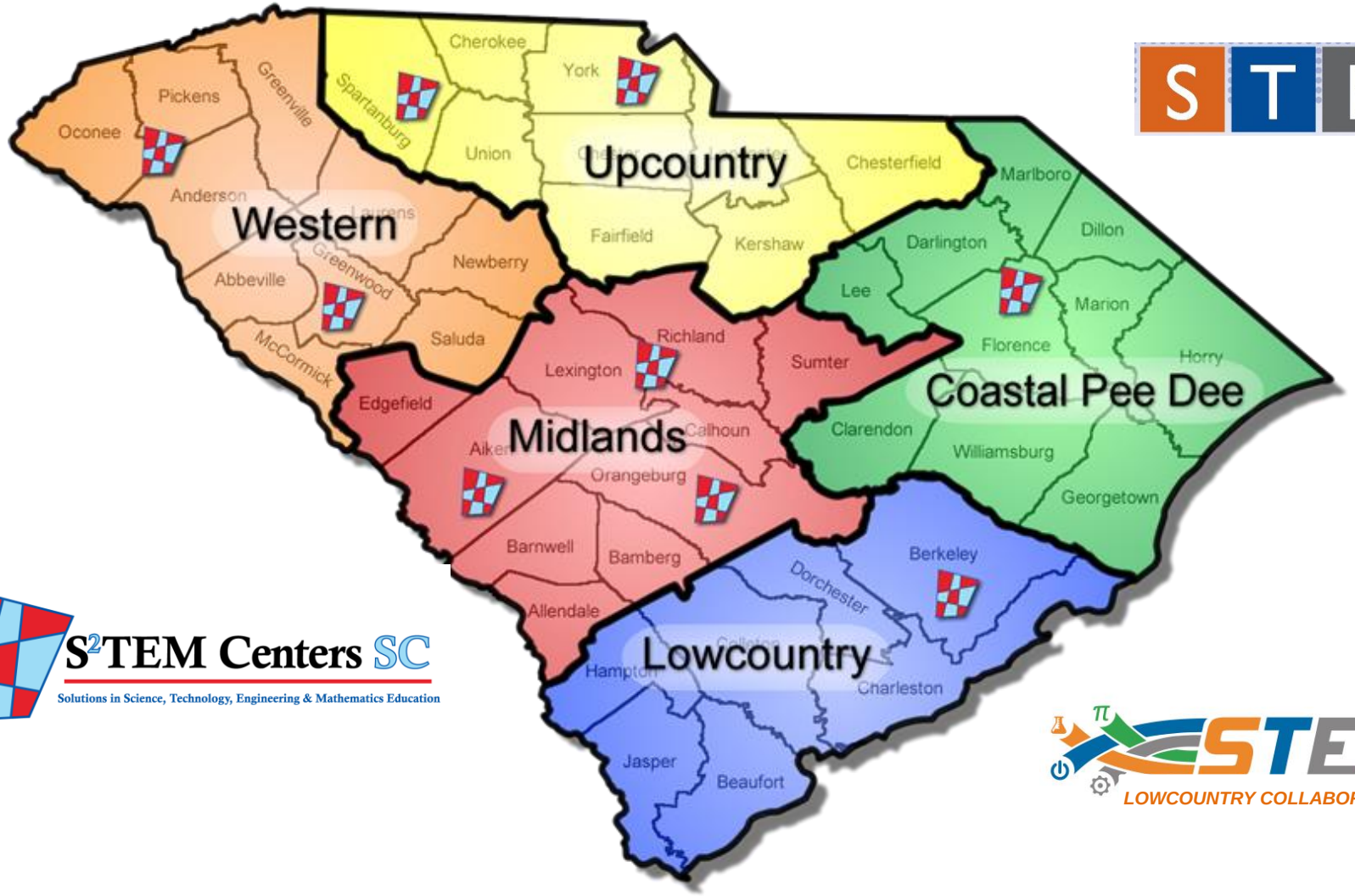
UPSTATE SC COLLABORATIVE

SOUTH CAROLINA'S COALITION FOR MATHEMATICS & SCIENCE
SCCMS
- ACHIEVEMENT BY DESIGN -

STEM LINX



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Solutions in Science, Technology, Engineering & Mathematics Education

STEM
LOWCOUNTRY COLLABORATIVE

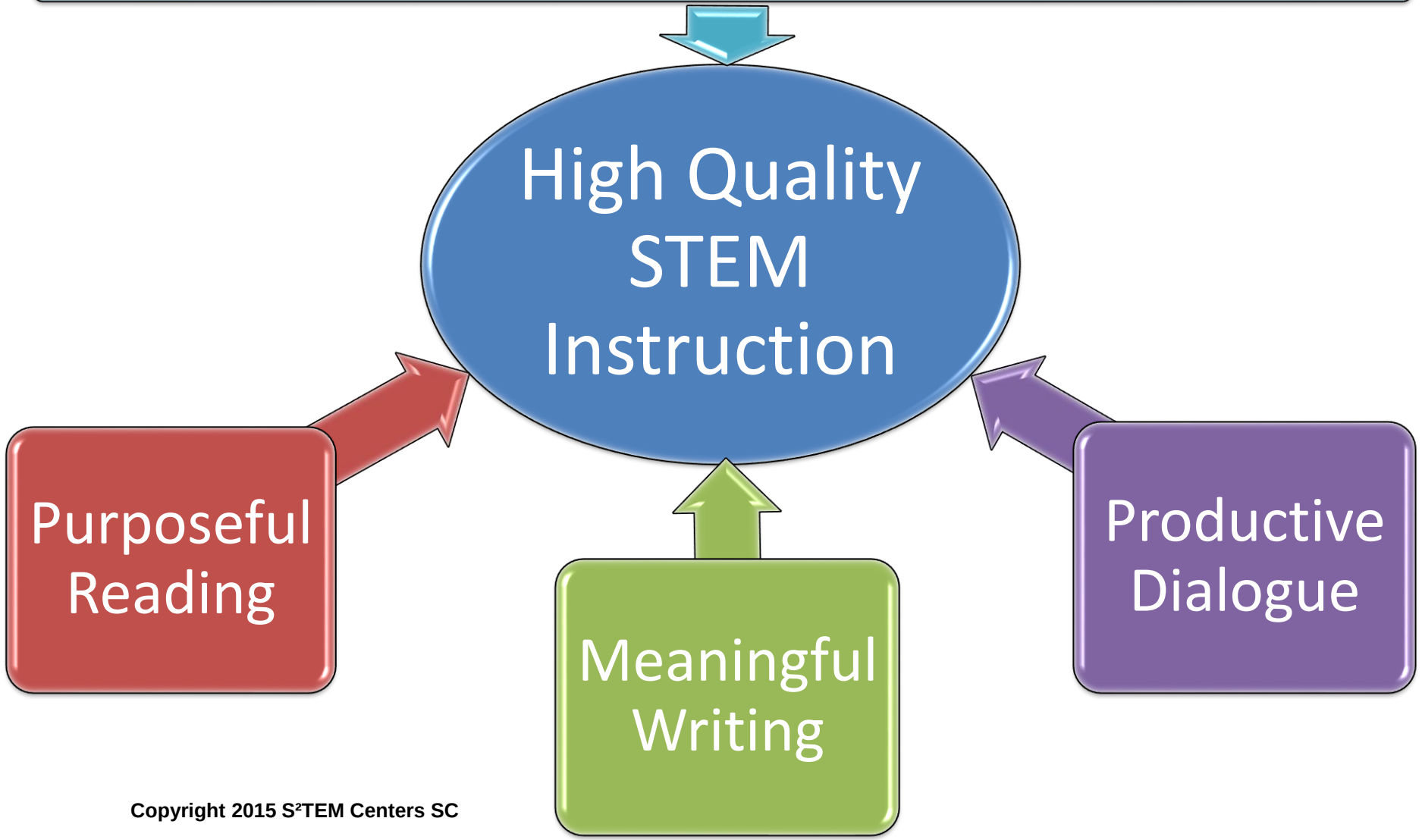
South Carolina's statewide network for STEM education since 1993.

What is Disciplinary Literacy?

Advanced literacy instruction embedded within content areas. This sort of instruction engages learners with content in ways that mirror what scientists and mathematicians do to inquire and gain understanding in their disciplines.

Shanahan, T. & Shanahan C. (2008). Teaching Disciplinary Literacy to Adolescents: Rethinking Content-area Literacy.
Harvard Educational Review, 78, 1, 40-59.

Inquiring Minds:
Reading to Learn and Innovate in Mathematics and Science



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PEO Probe

- Predict
- Explain
- Observe

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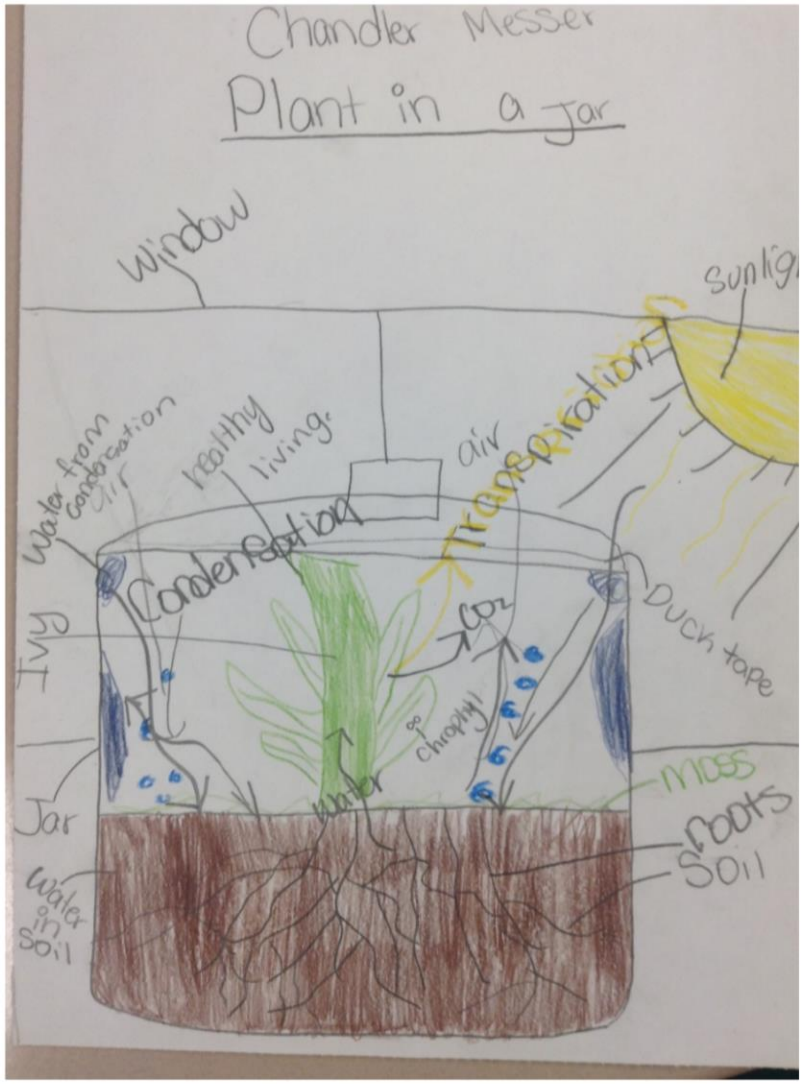
So, what does PEO Probe look like in the classroom?

As you view the video, what do you notice about students as they share their predictions and explanations?



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View video

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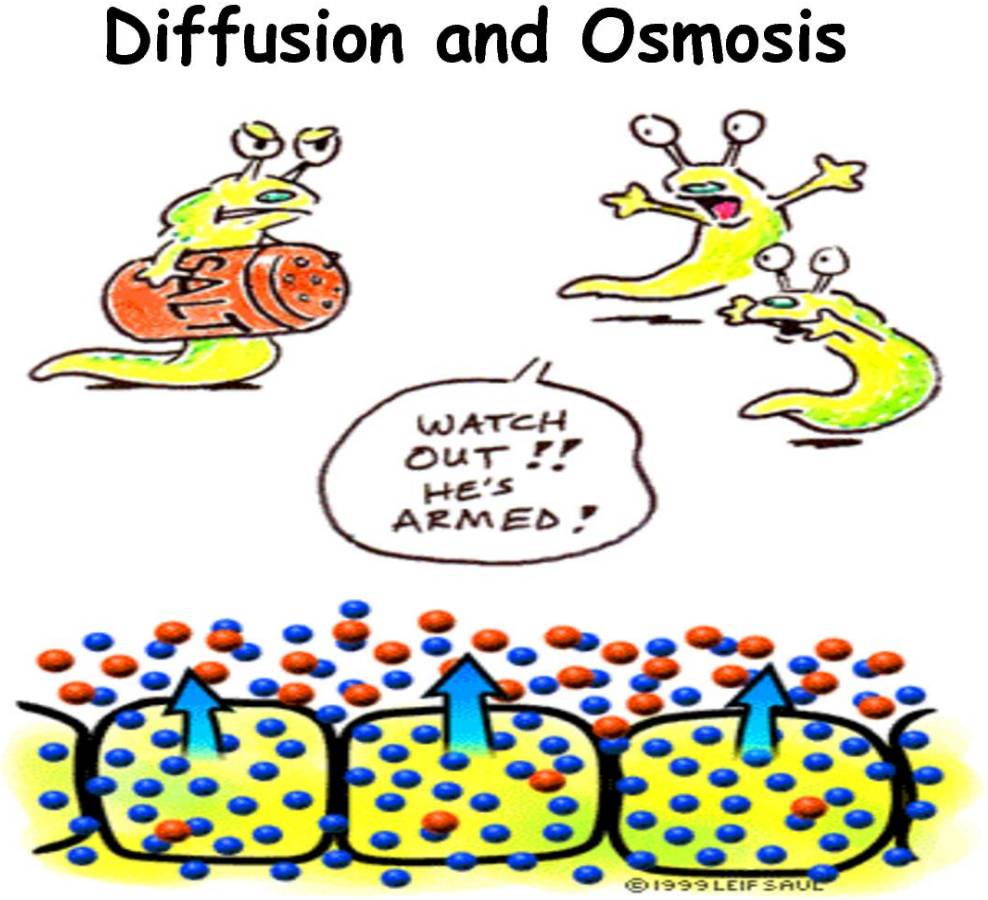
Diffusion vs. Osmosis: What is occurring with the gummy bears?

- As you read, highlight information supporting a response to the focus question.
- As a table group, use highlighted information to create a Venn Diagram on Diffusion and Osmosis.



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Revisit PEO Probe: Record Final Observation

Tap Water: After 40 Min

Tap Water with Salt: After 40 Min

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¶ Proof Paragraph ¶

1st Sentence – Introductory Sentence; Answers the question; States the claim

2nd Sentence – Supporting Evidence/Reason

3rd Sentence – Supporting Evidence/Reason

4th Sentence – Supporting Evidence/Reason

5th Sentence – Conclusion

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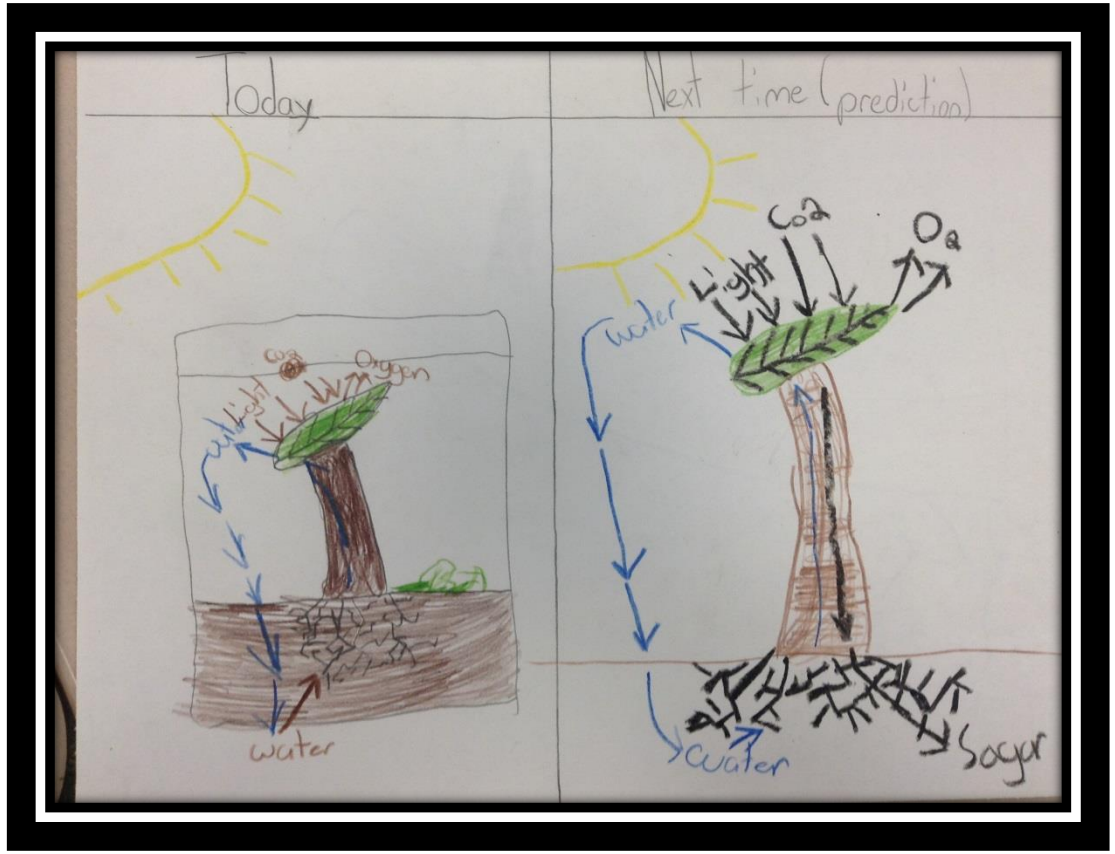
Students Revisit Plant in a Jar for Final Observations

- As you view the video, what do you notice about:
  - Student observations?
  - New predictions?
  - Student work?



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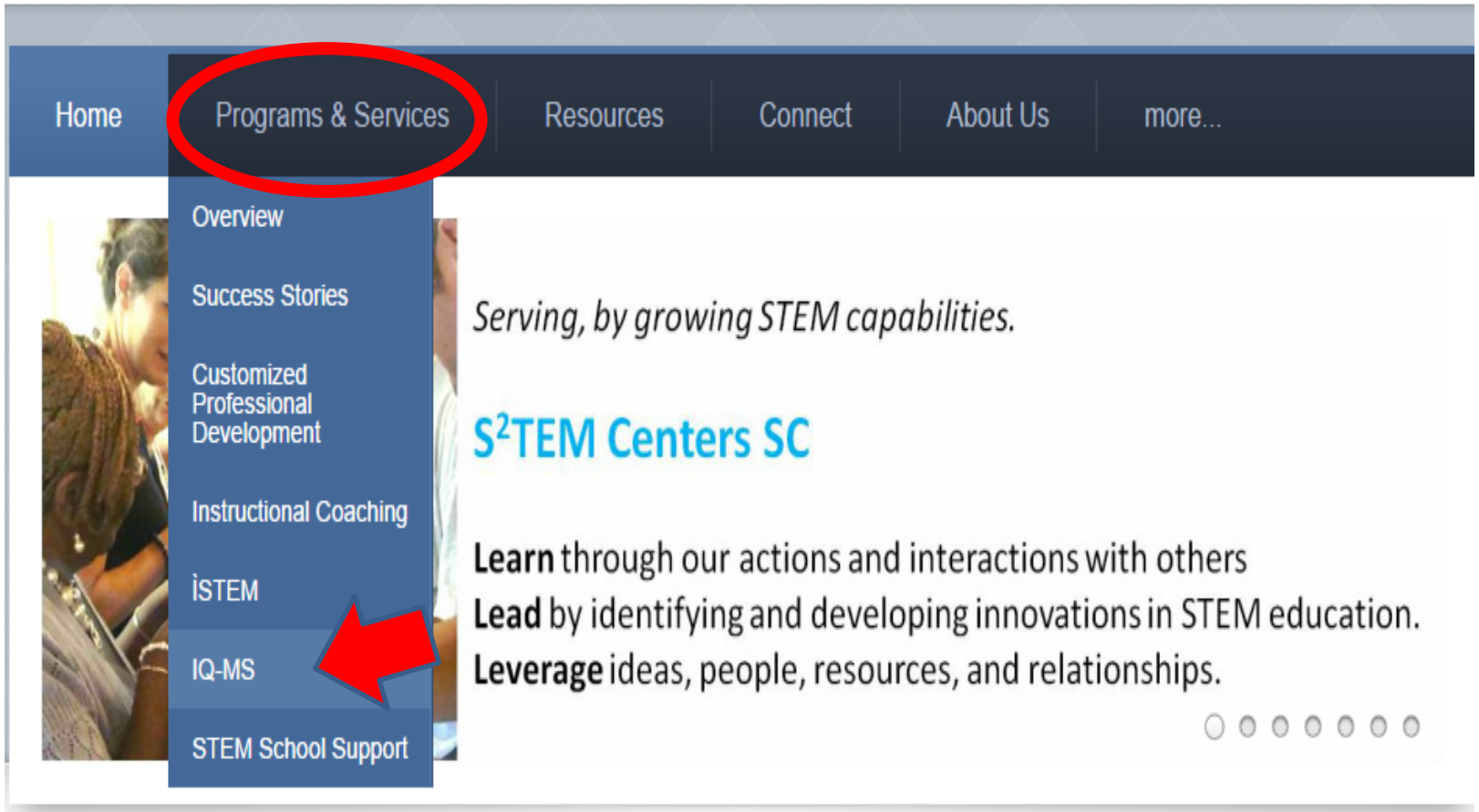
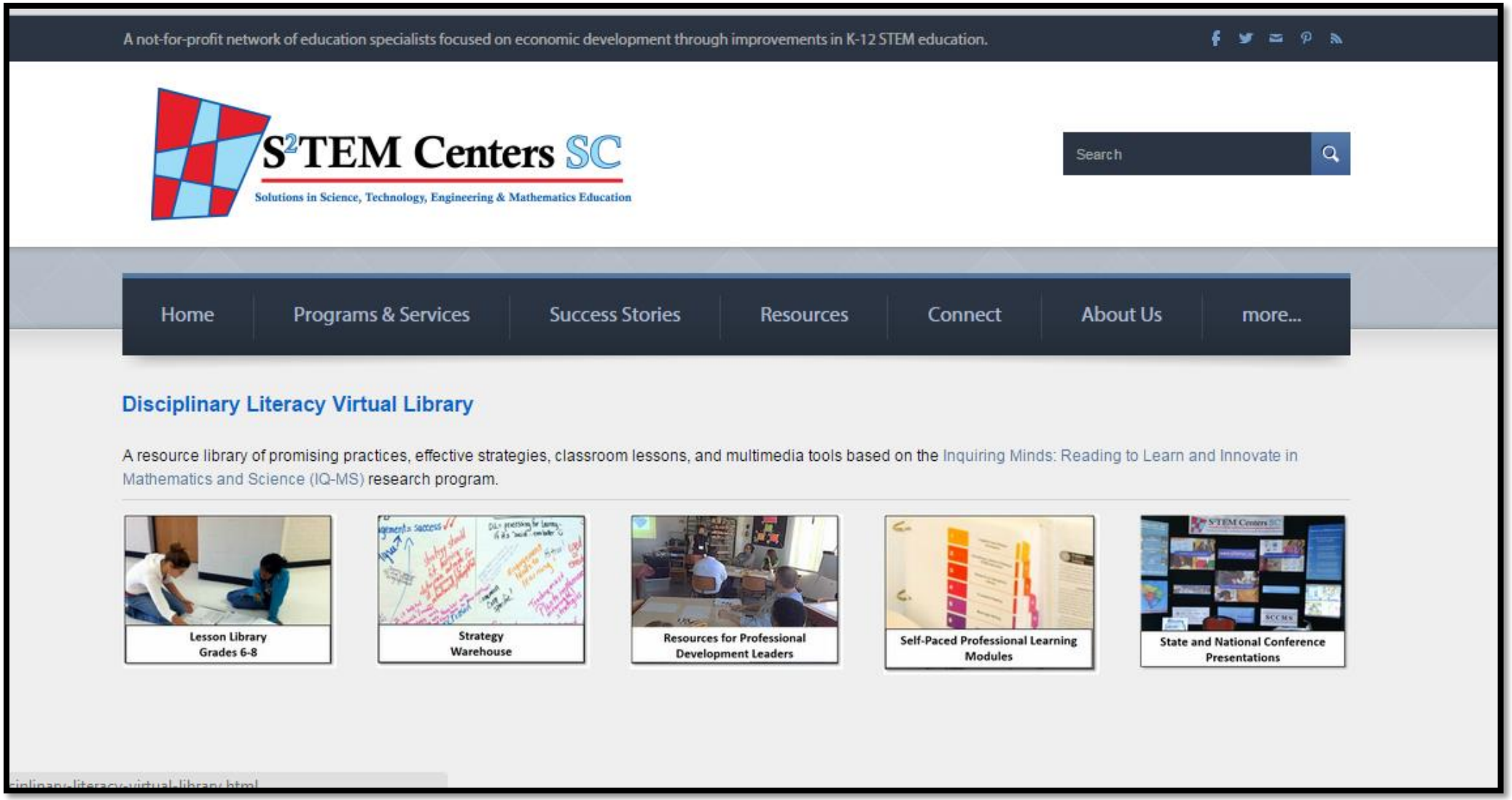
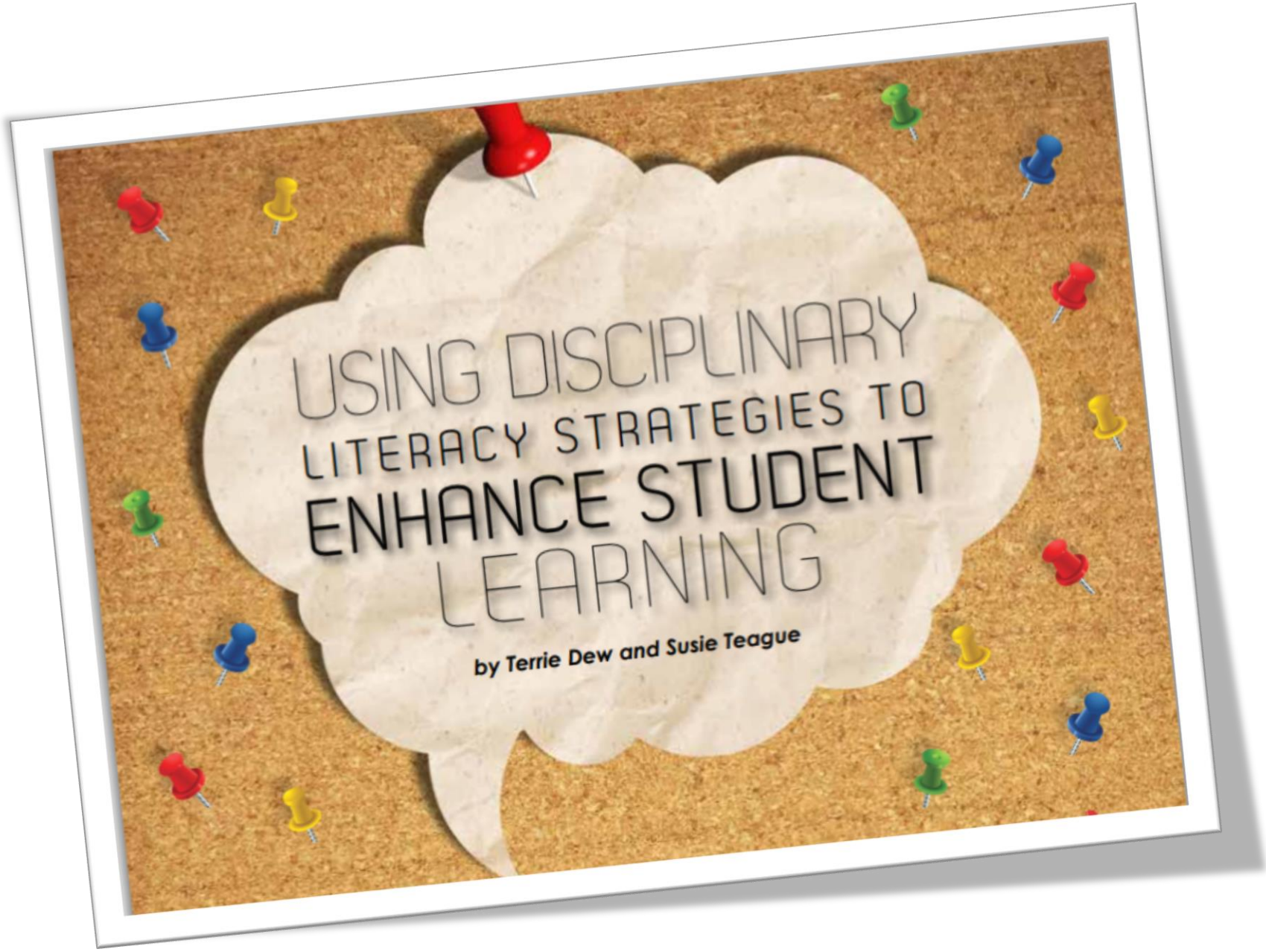
Search



Virtual Library




USING DISCIPLINARY
LITERACY STRATEGIES TO
ENHANCE STUDENT
LEARNING
by Terrie Dew and Susie Teague

Now what….

What commitments are you willing to make towards ensuring that students read, write and dialogue in science?

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Now What…
Thoughts for the Day

3 – things or important ideas you want to remember

2 – things you would like to know more about (questions, please leave your email so we may respond)

1 – idea you will implement right away

FYI

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