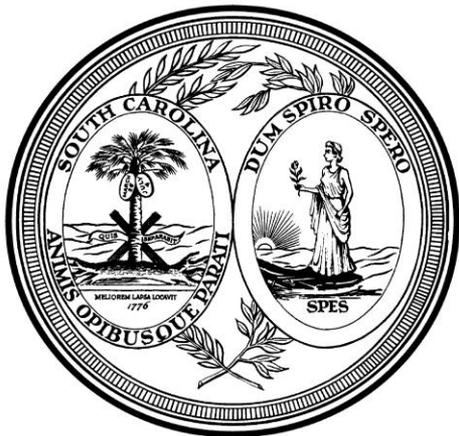


2016 SUMMER VIRTUAL PLO

INQUIRY STANDARDS



Candice M. Lowman

Middle Level ELA Education Associate

clowman@ed.sc.gov

803-791-0091



Candice M. Lowman

Middle-Level Education Associate

clowman@ed.sc.gov

803-791-0091

2016 Summer Virtual PLO Padlet

<http://goo.gl/S2n1xC>

2016 Summer Virtual PLO

Writing: Integrating the Writing Progression into Classroom Instruction
June 14, 2016 10:00- 11:00

A video clip about the practice behind school lunches
November 16, 2011, "School lunches and child abuse, Washington-style"
<http://theketword.com/news/2011/11/16/>

Recycling

Recycling facts for kids:
<http://www.cheromax.com/learn/essence-world/recycling-facts>

Information about waste and recycling:
<http://www.dnr.state.nj.us/eng/soer/soer/soer/recycle/waste.htm#waste>

An article about recycling: "Recycling Chemistry Gas"
http://pet.talac.org/portal/acs/org/content?afid=track_pageLabel=PP_SUPERARTICLE&node_id=17588&acc=fast&acc_act=region1&_sass=bf96b52e-3f9d-4c6b-bec1-99bee721e311

An article about the waste produced by plastic water bottles:
<http://kub.usatomb.org/graphic.com/kub/stories/spacescience/water-bottle-pollution/>

A news clip that argues recycling is the "lazy" way of saving our planet:
<http://www.youtube.com/watch?v=g3305vqjllk&feature=related>

The Reading and Writing Project

Writing: Integrating the Writing Progression into Classroom Instruction
2016 Middle Level ELA Virtual Summer PLO June 14, 2016

Inquiry Standards
June 15, 2016 10:00-11:00

Inquiry Standards
2016 Middle Level ELA Virtu...

Interdisciplinary Literacy
June 14, 2016 2:00-3:00

Interdisciplinary Literacy
2016 Middle Level ELA Virtu...

Reading: Literary Text Standards
June 15, 2016 2:00- 3:00

Reading- Literary Text Standards
2016 Middle Level ELA Virtual Sum...

Reading: Informational Text Standards
June 22, 2016 10:00- 11:00

Reading- Informational Text Standards
2016 Middle Level ELA Virtual Summer PL...

Communication Standards
June 22, 2016 2:00- 3:00

Communication Standards
2016 Middle Level ELA Virtu...

SCDE Website

SOUTH CAROLINA DEPARTMENT OF EDUCATION
ed.sc.gov

About SCDE | Newsroom | Jobs | Contact

Search

Districts & Schools | Tests | Educators | **Instruction** | Data | Policy | Finance | Login

Spearman Announces Changes in S.C. Educator Evaluation

State Superintendent of Education Molly M. Spearman announced proposed changes to South Carolina educator evaluations as a result of the passage of the Every Student Succeeds Act.

[READ MORE](#)

SCDE Website



[About SCDE](#) | [Newsroom](#) | [SBE](#) | [Jobs](#) | [Contact](#)



[Districts & Schools](#) [Tests](#) [Educators](#) [Instruction](#) [Data](#) [Policy](#) [Finance](#) [SBE](#) [How do I?](#) [Login](#)

Home

Instruction

[Adult Education](#)

[Career and Technology Education](#)

[Early Learning and Literacy](#)

[Read to Succeed](#)

[Instructional Materials](#)

[Special Services](#)

[Standards & Learning](#)

[Technical Assistance](#)

[Virtual SC](#)

Instruction

- > [Adult Education](#)
- > [Career and Technology Education](#)
- > [Early Learning and Literacy](#)
- > [Read to Succeed](#)
- > [Instructional Materials](#)
- > [Special Services](#)
- > [Standards & Learning](#)
- > [Technical Assistance](#)
- > [Virtual SC](#)



SCDE Website

Home / Instruction



English Language Arts

- Standards
- Support Documents and Resources
- Professional Learning Opportunities
- Professional Organizations

Mathematics

- Standards
- Support Documents and Resources
- Professional Learning Opportunities
- Professional Organizations

Science

- Standards
- Support Documents and Resources
- Professional Learning Opportunities
- Professional Organizations

Social Studies

- Standards
- Support Documents and Resources
- Professional Learning Opportunities
- Professional Organizations

Health Education

- Standards
- Support Documents and Resources
- Professional Learning Opportunities
- Professional Organizations

Physical Education

- Standards
- Support Documents and Resources
- Professional Learning Opportunities
- Professional Organizations

Session Learning Targets

- I can define inquiry.
- I can explain why inquiry-based learning is important.
- I can explain how inquiry-based learning can be integrated into my instruction.
- I can integrate inquiry standards into my instruction.

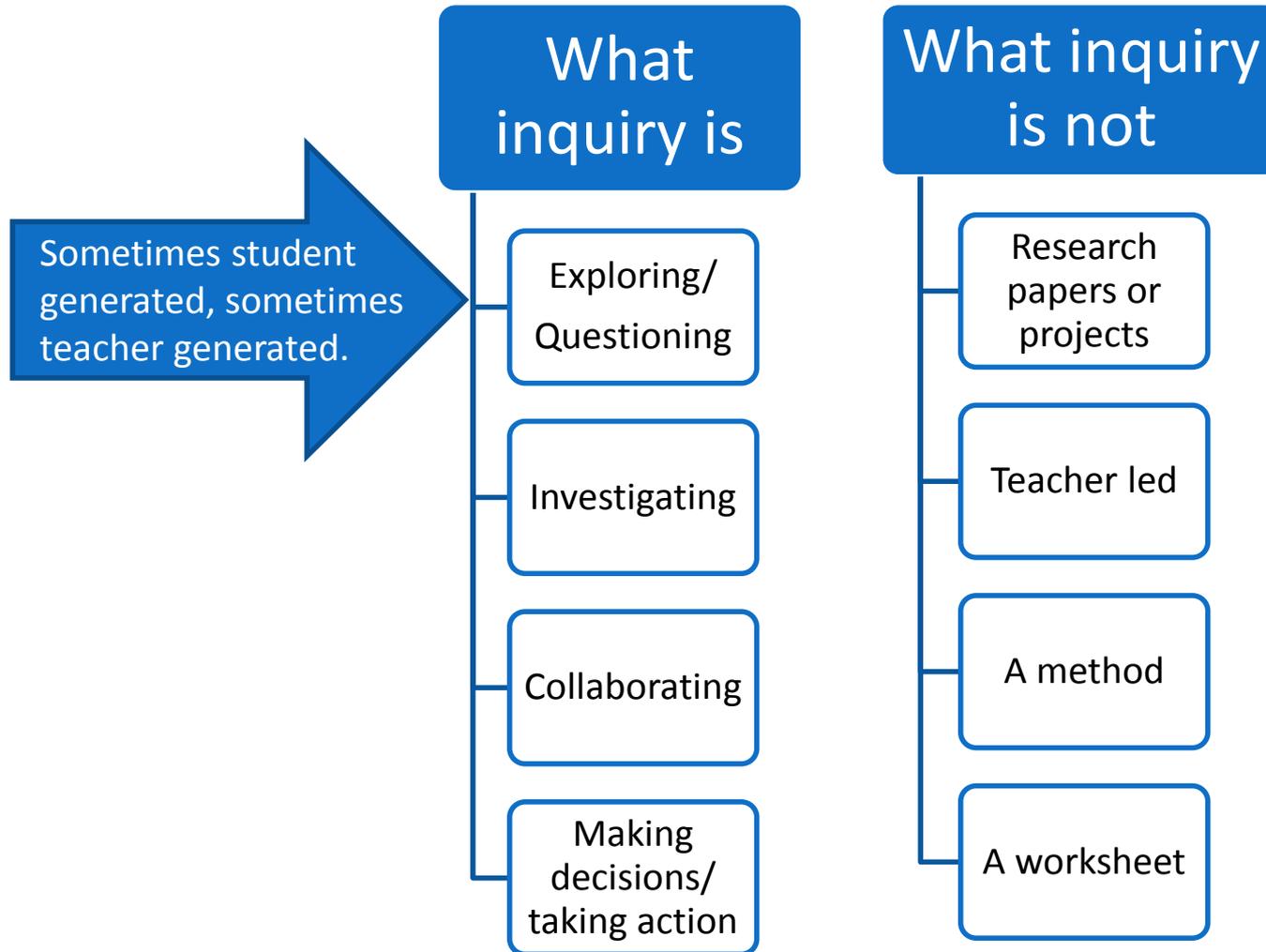
What is Inquiry?

“Inquiry is the dynamic process of being open to wonder and puzzlements and coming to know and understand the world.”

What is Inquiry- Based Learning?

“Inquiry-based learning is a process where students are involved in their learning, formulate questions, investigate widely and then build new understandings, meanings, and knowledge.”

What is Inquiry-Based Learning



Why Inquiry- Based Learning?

“Using inquiry-based learning with students can help them become more creative, more positive, and more independent.”

Why Inquiry- Based Learning?

PROFILE OF THE South Carolina Graduate

WORLD-CLASS KNOWLEDGE

Rigorous standards in language arts
and math for career and college
readiness

Multiple languages, science, technology,
engineering, mathematics (STEM), arts and
social sciences



WORLD-CLASS SKILLS

Creativity and innovation

Critical thinking and
problem solving

Collaboration and teamwork

Communication, information,
media and technology

Knowing how to learn

LIFE AND CAREER CHARACTERISTICS

Integrity • Self-direction • Global perspective • Perseverance • Work ethic • Interpersonal skills

© SCASA Superintendents' Roundtable

Adopted by: SC Arts Alliance, SC Arts in Basic Curriculum Steering Committee, SCASCD, SC Chamber of Commerce, SC Council on Competitiveness, SC Education Oversight Committee, SC School Boards Association, SC State Board of Education, SC State Department of Education, TransformSC Schools and Districts.



How Do We Implement Inquiry-Based Learning?

Create a culture of inquiry



Culture of Inquiry

- Administrator Support
- Vision
- Champions
- Resources and Space
- Collaboration
- Trust
- Team-teaching
- Problem Solving is Valued
- Recognizing, supporting, and teaching the role of metacognition

Metacognition and Inquiry-Based Learning

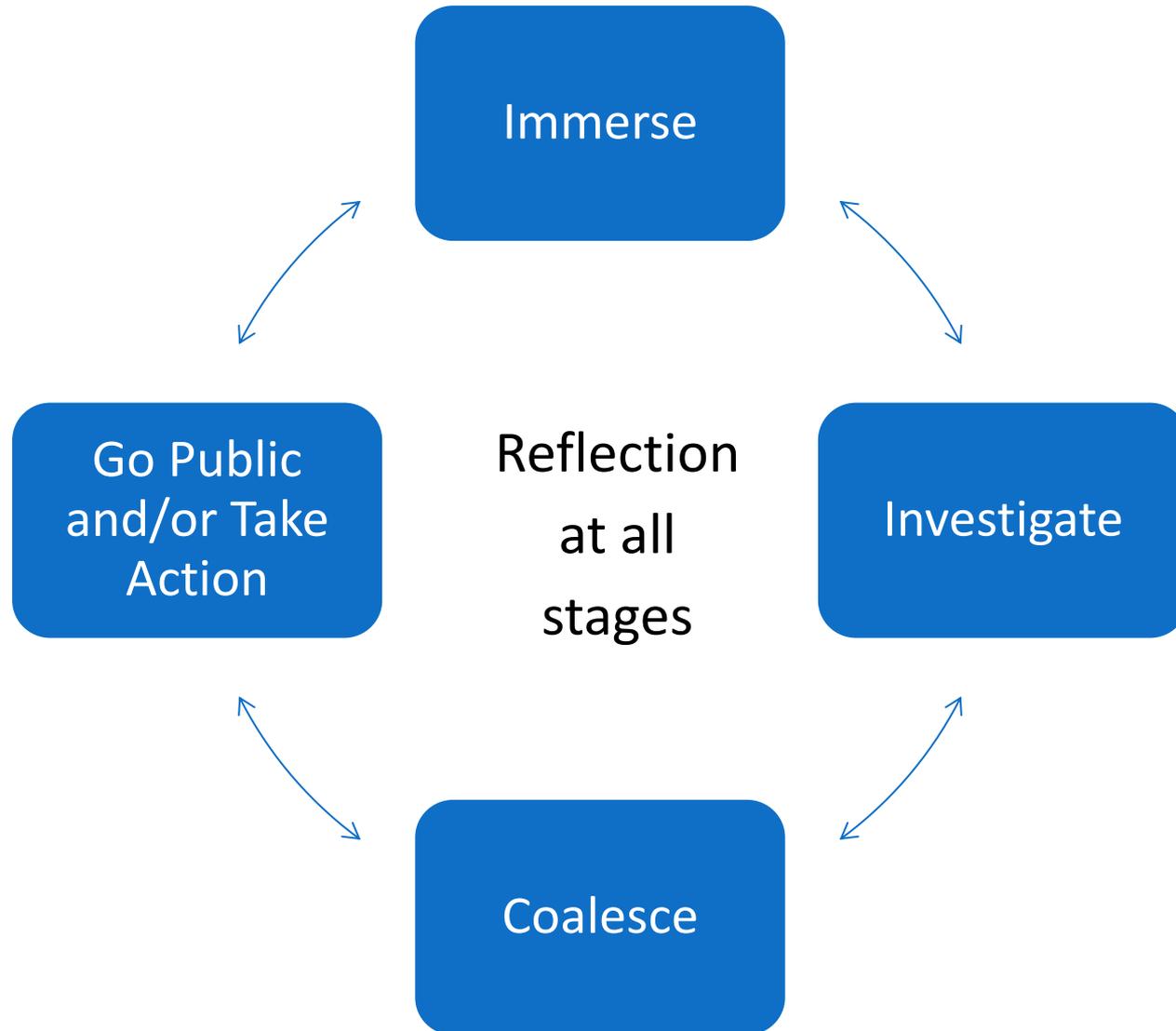
According to Merriam-Webster, metacognition is the
“awareness of analysis of one’s own learning or
thinking process.”

Inquiry-Based Learning requires students to constantly
reflect on their own learning and thinking.

Inquiry Framework



Inquiry Engagement Framework



Immerse

- Build background knowledge
- Find topics
- Wonder



- Provide students with various texts that allow them to build background knowledge on a particular topic if given.

Investigate

- Develop questions
- Search for information
- Discover answers



- Teach students how to develop questions.
- Provide students with various texts that allow them to search for information to answer their questions.

Questioning



QFT

Question Formulation Technique

- A process for teaching students to ask questions.

The Right Question Institute

<http://rightquestion.org/>

Resources for QFT

- Click on Educator Network then Resources

ReQuest

This strategy will help students make meaning from what they encounter in the text.

ReQuest

On the line questions:

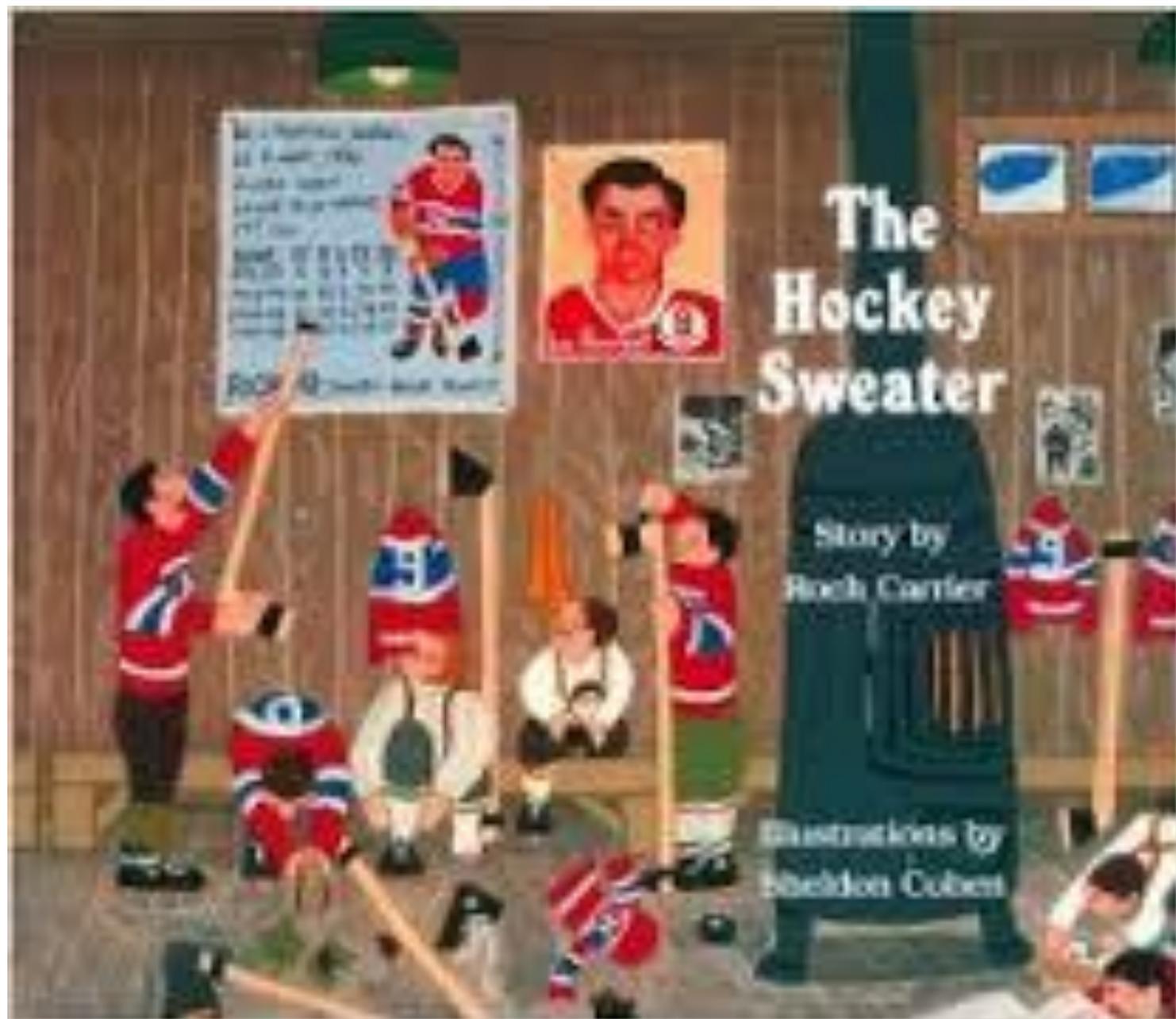
The answers to these questions are found directly in the text (facts.)

Between the line questions:

To answer these questions, students select clues from the text. Students need to make some inferences based on information they read.

Beyond the line questions:

These questions are usually reflecting in nature. Questions require students to make connections.



The Hockey Sweater

Story by
Roch Carrier

Illustrations by
Sheldon Cohen

Question	Type of Question	Where did you find the answer?
Do you think Roch was in the right when he broke his hockey stick on the ice? Why?	Between the lines	Use information from the text to come up with an answer.
What does Roch ask for in church?	On the lines	Answer is directly in the text.
Explain what we learn from the following statement, "If you make up your mind about something before you try it, you won't go very far in this life."	Beyond the lines	Use your prior knowledge and experience to answer the question

Coalesce

- Come together
- Synthesize information
- Build knowledge



- Have students work in groups or with a partner to share their knowledge gained.

Synthesizing

According to Merriam-Webster, synthesizing is

- “to make (something) by combining different things”
- “to combine (things) in order to make something new”

This can be a difficult skill for students to master.

Utilize conversation prompts when asked to synthesize information.

Synthesizing Conversation Prompts

- Students work with a partner and share the information they have gained from their investigation.
- Provide students with prompts to ask each other to begin the synthesis process. Answers should be recorded.

What have we discussed so far?
How can we bring this all together?
What can we agree upon?
What main points can we share?
What was our original question?
What key idea can we take away?

Synthesizing Conversation Response Prompts

- Provide students with response prompts. Answers should be recorded.

We can say that...
The main theme/point seems to be ...
As a result of this conversation, we think we should....
How does this sound...?
What if we...?
The evidence seems to suggest that...

Go Public

- Share learning
- Demonstrate understanding
- Take action



- Either individually, with a partner, or in a group students create a way to share their information.
- Real world application.

Go Public

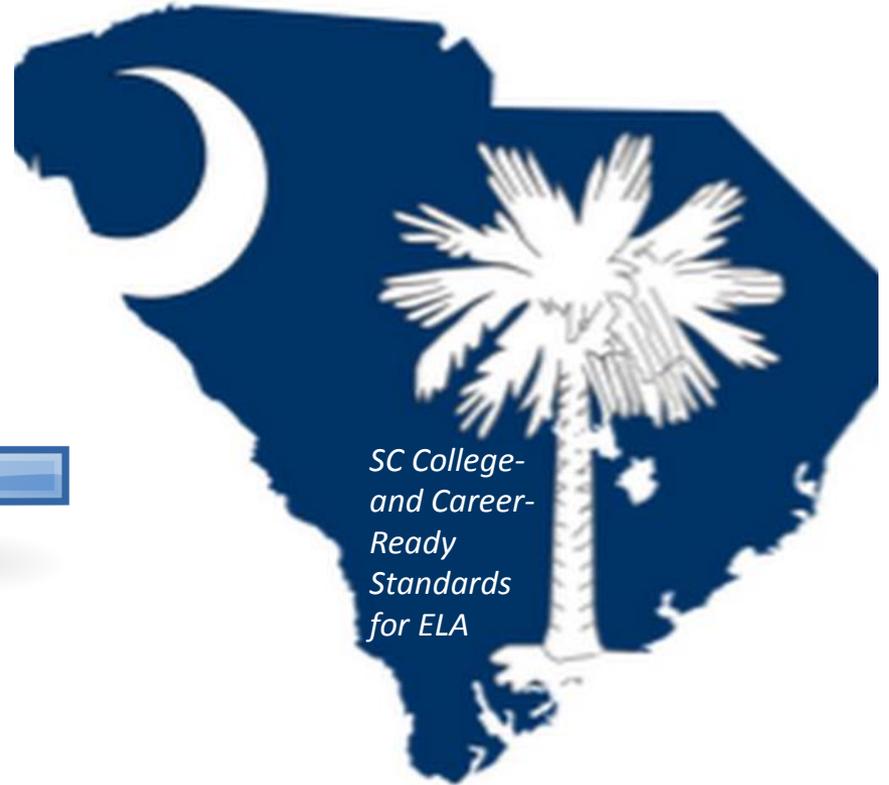


Students can use the conversation response prompt below to help them decide what they need to do with this information.

As a result of this conversation, we think we should....

Making the Connection

**Inquiry-Based
Learning**



*SC College-
and Career-
Ready
Standards
for ELA*

Investigate



Standard 1: Formulate relevant, self-generated questions based on interests and/or needs that can be investigated.

Standard 2: Transact with texts to formulate questions, propose explanations, and consider alternative views and multiple perspectives.

Standard 3: Construct knowledge, applying disciplinary concepts and tools, to build deeper understanding of the world through exploration, collaboration, and analysis.

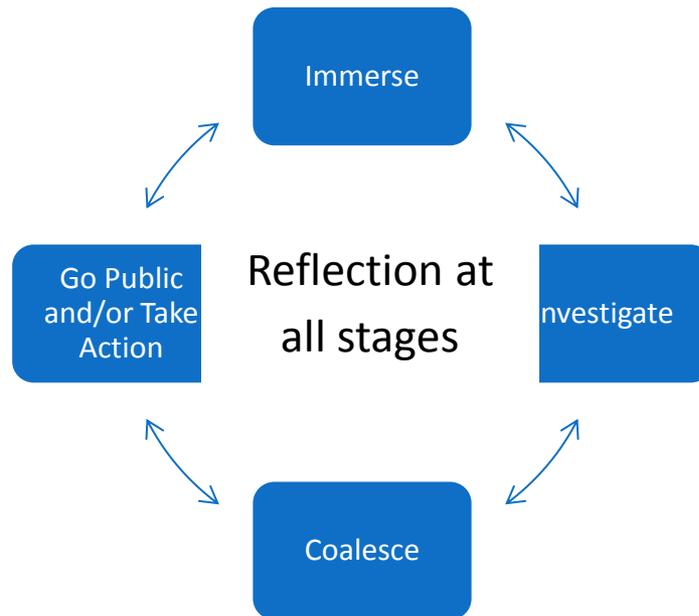
Coalesce



Standard 4: Synthesize integrated information to share learning and/or take action.

Inquiry Engagement Framework

Standard 5: Reflect throughout the inquiry process to assess metacognition, broaden understanding, and guide actions, both individually and collaboratively.



Wrapping it Up



What inquiry is.

Exploring/
Questioning

Investigating

Collaborating

Making
decisions/
taking action

What inquiry is not.

Research
papers or
projects

Teacher led

A method

A worksheet

Sometimes student generated, sometimes teacher generated.

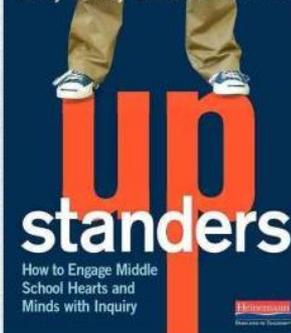
Professional Texts

Inquiry Standards

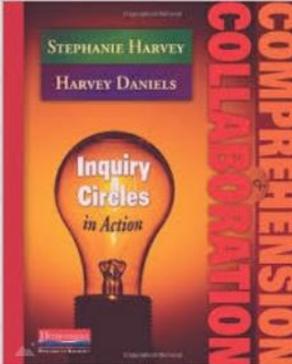
2016 Middle Level ELA Virtual Summer PLO June 15, 2016

UpStanders

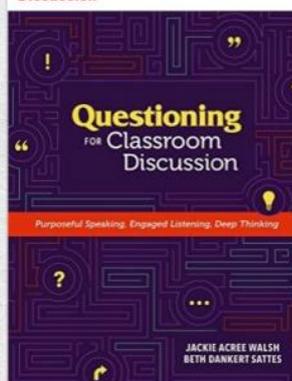
Harvey "Smokey" Daniels - Sara K. Ahmed



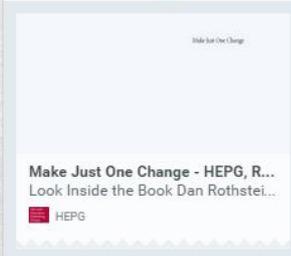
Comprehension and Collaboration



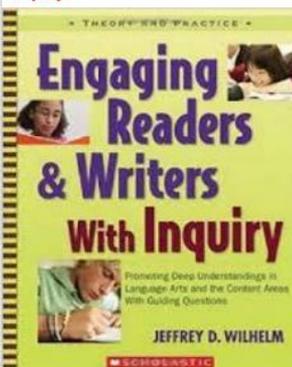
Questioning for the Classroom Discussion



Make Just One Change



Engaging Readers & Writers with Inquiry



Right Question Institute

Create a free account
Click on Educator Network then
resources to access the QFT
resources.



Right Question Institute - A Cataly...
The Right Question Institute is a no..

RIGHT QUESTION INSTITUTE

Contact Information

Candice M. Lowman

Middle Level ELA Education Associate

clowman@ed.sc.gov

803-791-0091

References

- Alberta Learning. (2004). Focus on Inquiry: a teachers' guide to implementing inquiry-based learning [PDF document]. Retrieved from Alberta Learning Web site: <http://www.teachingbooks.net/content/FocusOnInquiry.pdf>
- Carrier, R., & Cohen, S. (1984). The hockey sweater. Montreal, Quebec: Tundra Books.
- Galileo Educational Network. (2001). What is inquiry? Retrieved May 11, 2016, from <http://galileo.org/teachers/designing-learning/articles/what-is-inquiry/>
- Harvey, S., & Daniels, H. (2009). *Comprehension & collaboration: Inquiry circles in action*. Portsmouth, NH: Heinemann.
- Kuhne, B. (1995). The Barkerstorp project: Investigating school library use. *School Libraries Worldwide*, 1(1), 13-27.

References

Metacognition, 2016. In *Merriam-Webster.com*. Retrieved May 11, 2016 from <http://www.merriam-webster.com/dictionary/metacognition>

Synthesize. (2016). In *Merriam-Webster.com*. Retrieved May 11, 2016 from <http://www.merriam-webster.com/dictionary/synthesize>

Wells, Gordon (2001). *Action, talk & text: Learning & Teaching Through Inquiry*. New York, NY: Teachers College Press.

Zwiers, J., & Crawford, M. (2011). *Academic conversations: Classroom talk that fosters critical thinking and content understandings*. Portland, Me.: Stenhouse.