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Animal Research

My animal is the ostrich.

It is a bird.

Its size is 7-9 feet.

It lives in Africa and zoos.

It eats plants, nuts, seeds, insects, lizards, other creatures.

Fascinating facts: Its eye is really big. It is taller than a grown-up. Their plumage blends well with the sandy soil.

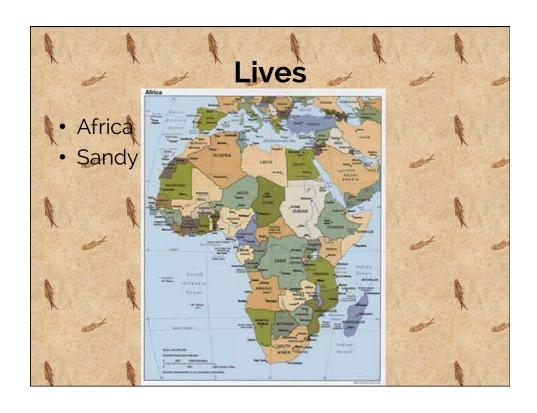


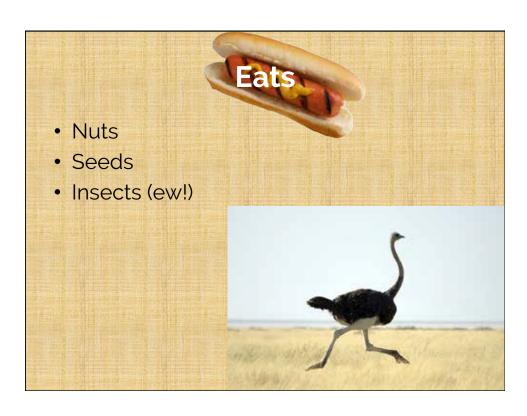
http://animals.nationalgeographic.com/animals/birds/ostrich/

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- Inquiry, thoughtfulness, problemsolving
- -Using and evaluating information
- -Social, collaborative teaching and learning
- -Authentic work tasks, products, and audiences
- -Librarian as instructional partner throughout process

- "Dump and go": finding answers to specific close-ended, teachergenerated questions
- Finding information
- Isolated, individual learning
- Contrived tasks without resonance to student
- Librarian as an accessory to learning ("a clerk could do it")

#### **Inquiry's Favorite Things**

Authentic student questions vs. teacher-directed ones

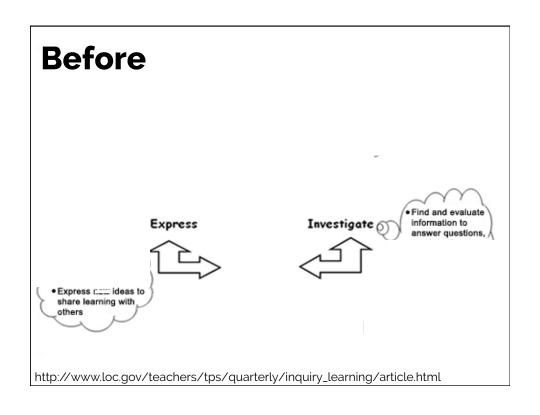
Open-ended conclusions vs. uniform results

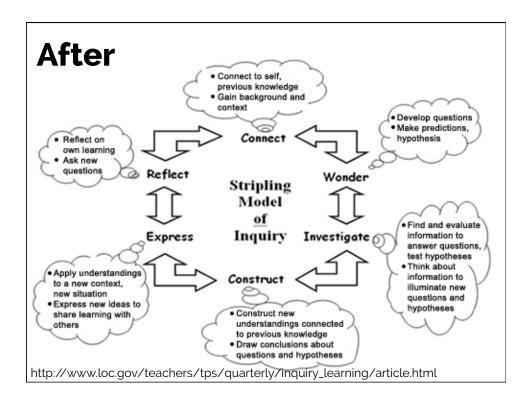
Critical thinking and comprehension vs. regurgitation

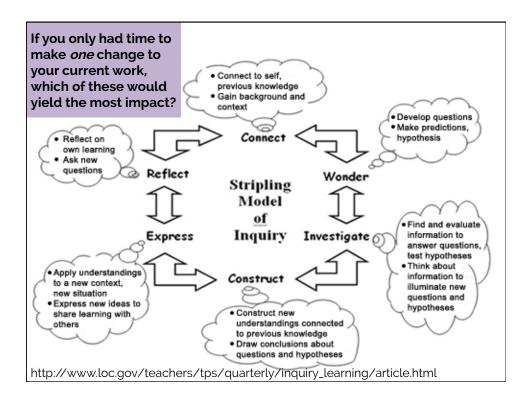
Synthesis vs. cut-and-paste















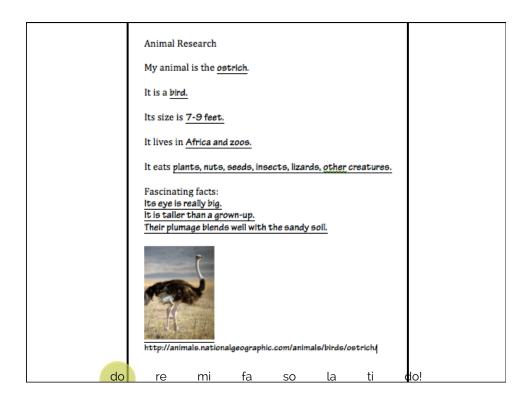


#### **Red Light Questions**

(Levitov; Fontichiaro & Johnson, et al)

- STOPS research from going further
- Require a single factual answer
- Often start with who, what, where, when, how many
  - Who did George Washington marry?
  - What happened in the story after Winnie refused to drink the immortality water?
  - Where did the Confederate Army surrender?
  - When did Marie Curie report her findings on radium?
  - How many people live in Tennessee?

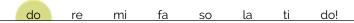
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#### **Green Light Questions**

(Levitov; Fontichiaro & Johnson, et al)

- May require collection and synthesis of information
- May have words in them like why or how
- May be focused around finding solutions to articulated problems (see next slide)
- Similar to "essential questions," "thematic questions"



# REfresh their prior knowledge or build it up.

- They don't know anything about the topic yet.
- Try a picture book, easy encyclopedia entry, image discussion, or video to build up prior knowledge, help them become familiar with topic-specific vocabulary and concepts.



### MInimize teacher-produced questions.

- Invite groups to brainstorm questions.
- Place teacher in the role of scribe.
- Let students borrow questions from one another.



# FActs out of context are boring. Try a scenario.

Select a lighthouse. Tell us the history of the lighthouse, its first keeper, the kind of lens it has, where it is located, and whether it is on the mainland or an island. *Spelling and grammar count!* 

VS.

The Governor of Michigan has proposed selling off ten lighthouses in order to reduce state costs. Identify an existing lighthouse that could be turned into a new kind of business to profit our state. Use PowerPoint to create a proposal you can share at her next open meeting. Think about your audience when planning!

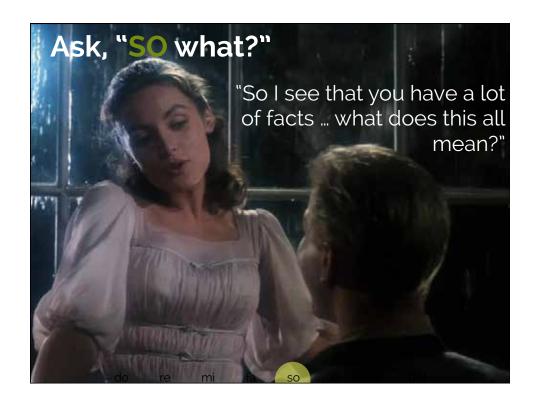
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#### **FA-raming Strategies**

- Situate the topic in the student's home, work, school, or social life.
  - How would this impact your family?
  - What if this were in your backyard?
  - How should the principal react to \_\_\_\_?
- Tell a story. Ask students to do research to finish it.
  - The three pigs want to build another house. The hardware store is out of straw, wood, and brick. What would be another good insulator? Why?
- Flip history.
  - How might the U.S. be different today if the war ended at Gettysburg instead?

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# LAunch work on arguments to help even young thinkers connect their infobits.

- Statement
  - Evidence
  - Evidence
  - Evidence
- Reiteration of statement
- George Washington was a great president.
  - During the Revolutionary War, he led the troops.
  - He brought calm to the early days of our independence.
  - He picked advisors who were wise.
- For these reasons, George Washington is a president we should remember and celebrate.

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### TIme is limited.

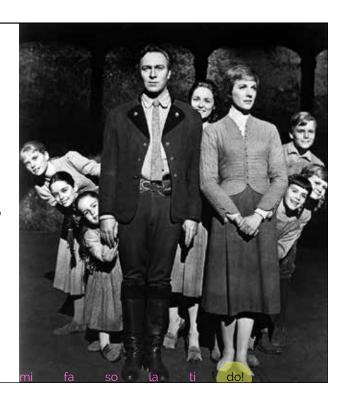


- 1. sprints and not marathons
- 2. could you skip making a product and do oral sharing?

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# We are DOne!

- Questions?
- Ideas?
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