



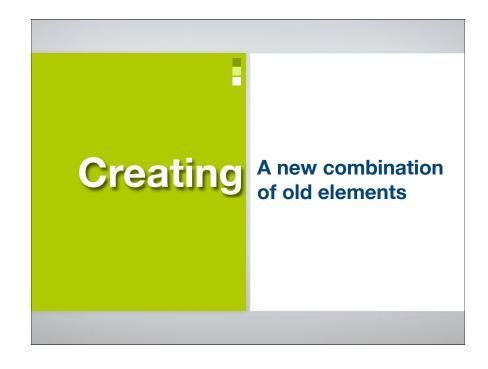


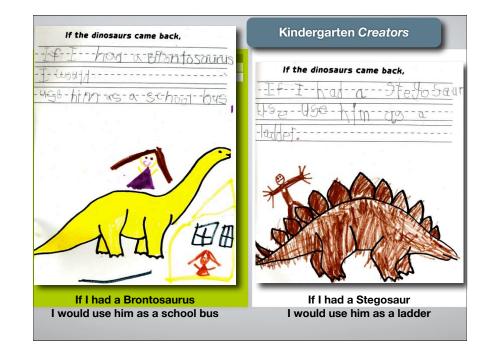


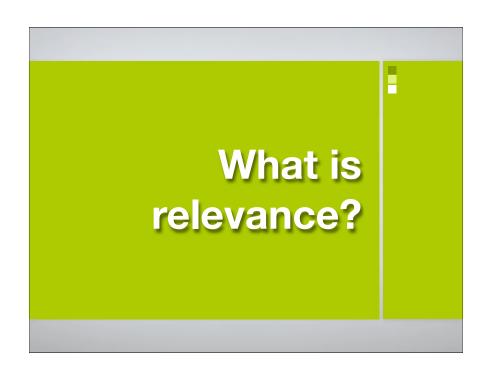
What is critical thinking?

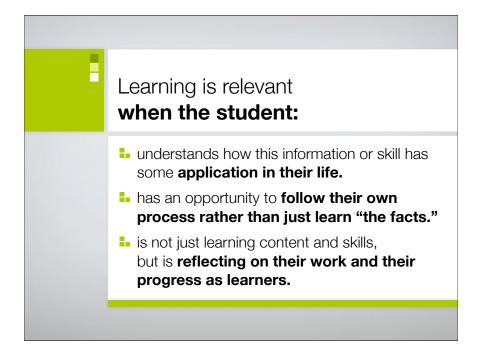
Critical thinking =
Higher level Bloom's Taxonomy

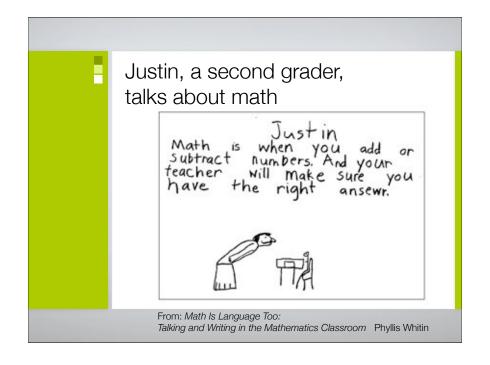
Creating -generating new ideas
Evaluating - justifying a decision or choice
Analyzing - breaking into component parts
Applying - using information in a new setting
Understanding - explaining idea or concept
Remembering - recalling information

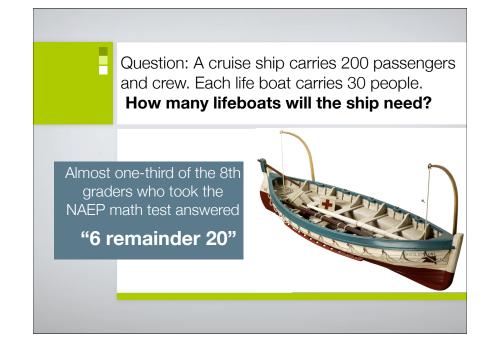


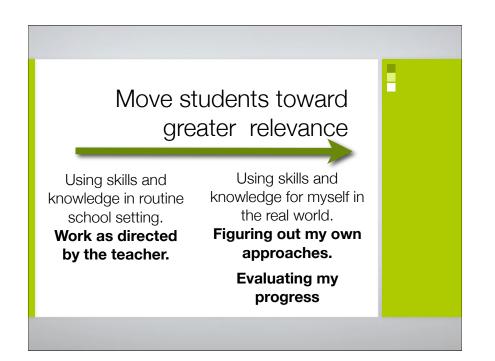




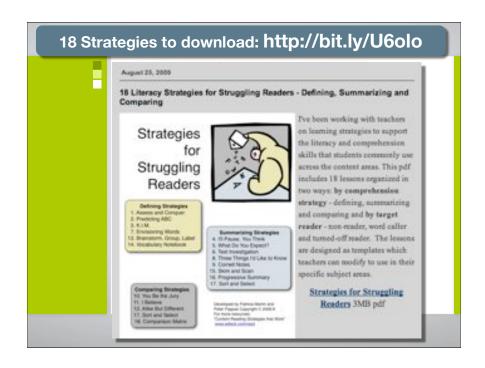


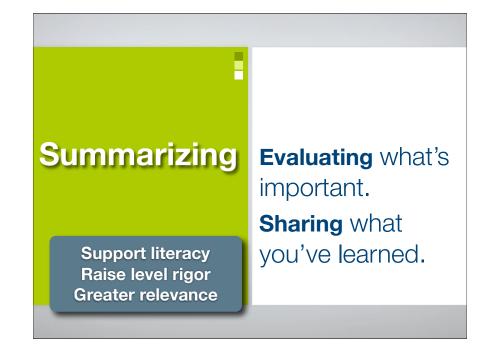


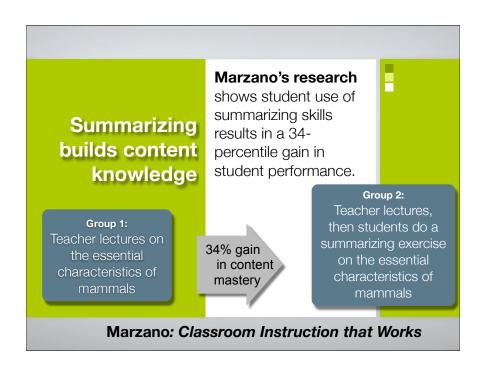


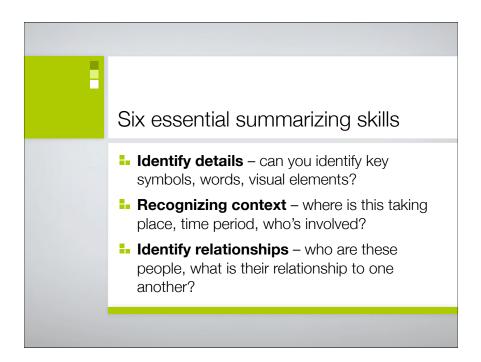


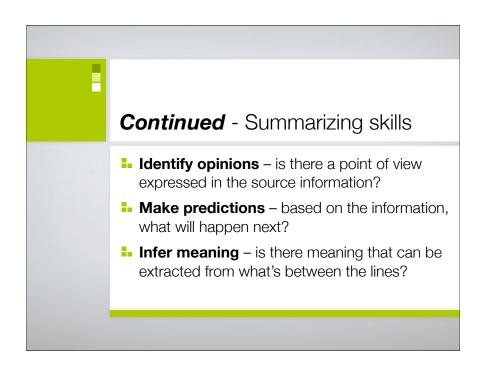


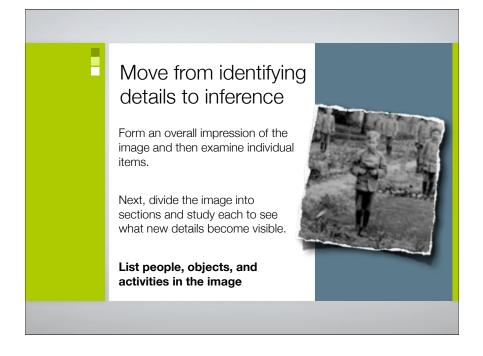














Elements for teaching summarizing

- Allow students to make their own judgments about what's important (instead of just repeating the details the teacher highlights)
- Students need to be able to share what they've learned with an audience other than the teacher.

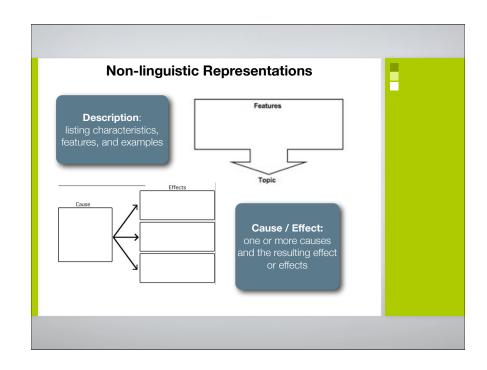
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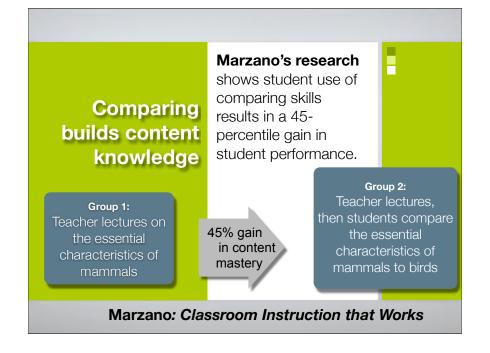
Explaining what you've learned is telling a story using a narrative patterns.

- Student may need **explicit training** about **narrative patterns**.
- Recognizing how information is organized helps to analyze original work and summarize it for their audience.

Narrative Pattern	Description	Cue Words
Description	Describes a topic by listing characteristics, features, and examples	for example, characteristics are
Comparison	Explains how two or more things are alike and/or how they are different.	different; in contrast; alike; same as; on the other hand
Cause / effect	Lists one or more causes and the resulting effect or effects.	reasons why; ifthen; as a result; therefore; because
Problem / Solution	States a problem and lists one or more solutions for the problem.	problem is; dilemma is; puzzle is solved; question answer
Sequence	Lists items or events in numerical or chronological order.	first, second, third; next; then; finally







Do you give students chances to develop their comparative models?

They could select items to compare from a teacher-produced list.
They could independently decide what to compare.
Can include some combination of selecting both the items and / or characteristics.

How is the comparison useful?
What do you learn from it?

Elements for teaching comparing and classifying

- We must ask students to develop the comparison, not just learn and repeat the model that we present to them.
- Student must share what they learned from the comparison.

Students can do comparisons in every class.

What's more important in sports ... strength or agility?



"When it comes to learning and recall, patterns can be more important than facts."

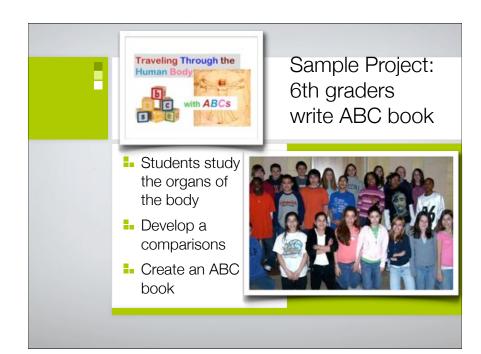
~Tim Hurson

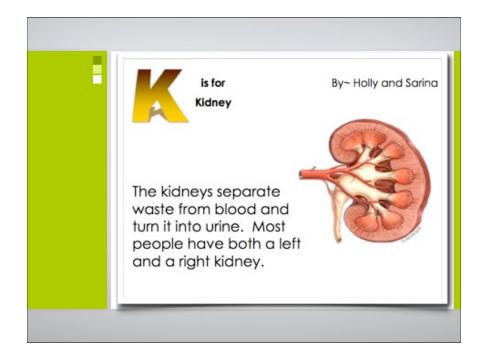
Essential Question: Who is doing the work?

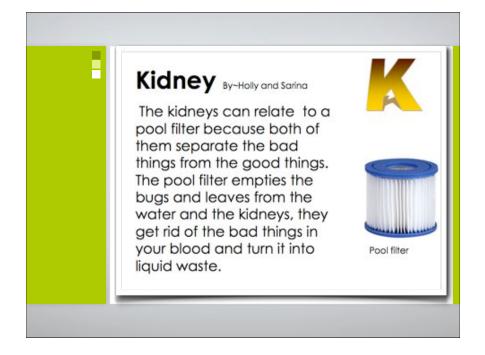


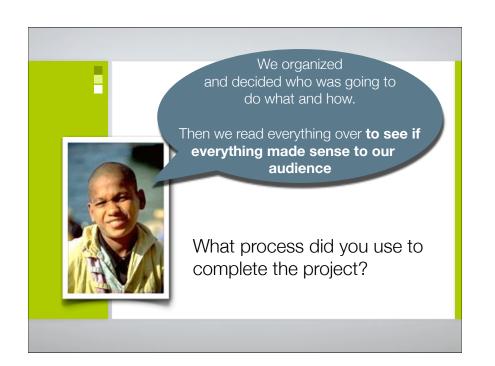
Learn to research, think, problem-solve and write like a

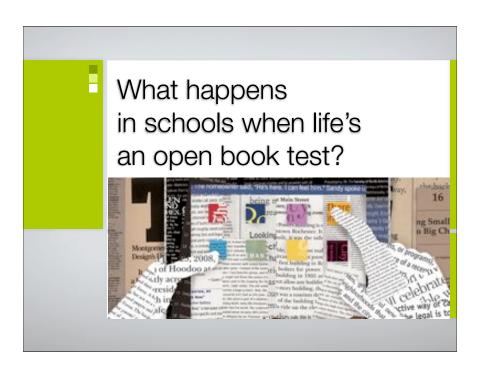
- scientist, engineer, coach, artist, historian, writer, mathematician, musician





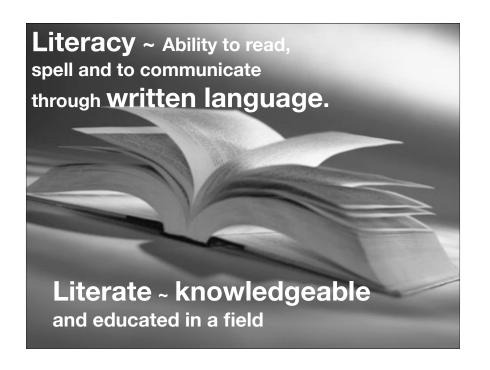




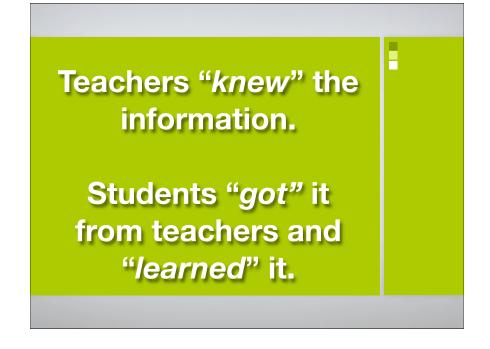




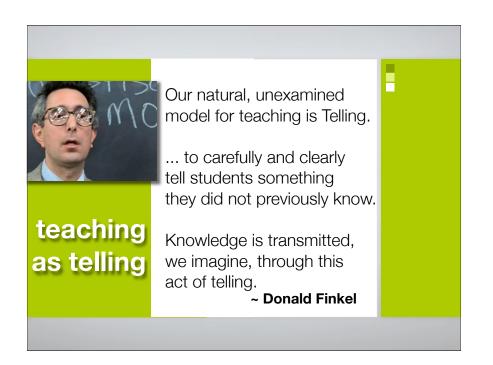


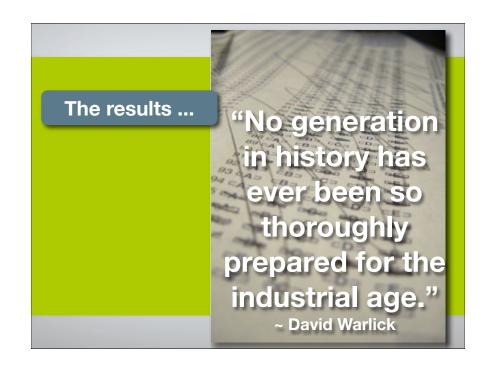


Schools developed
as information
centers.
Teachers functioned
as "information
gatekeepers."

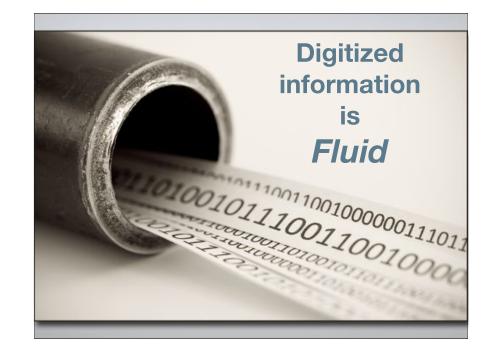


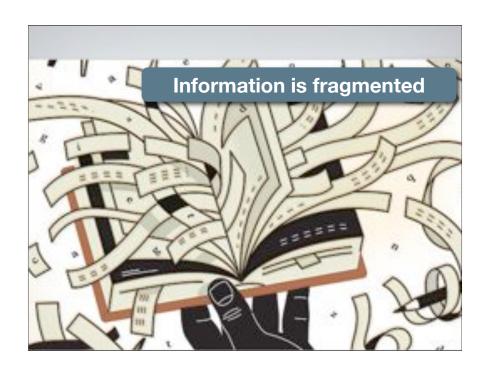


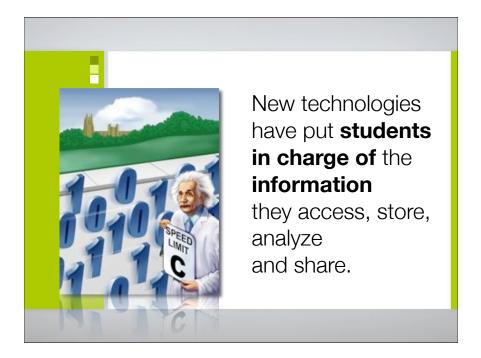














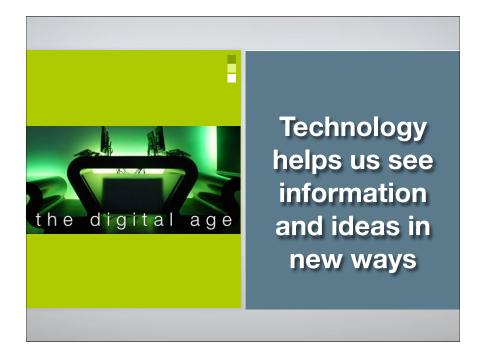


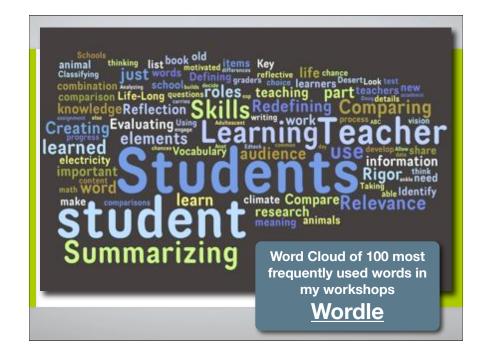
Digital age engages students with choices

#1 factor for improving student motivation is choice.

Not whether the student does the assignment, but how they engage in the work.

~Doug Reeves



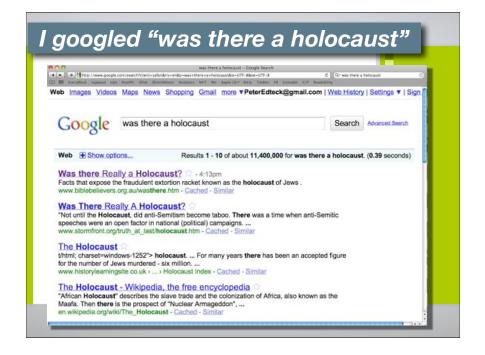


There's a new "literacy" In find information Independent decode it Independent critically evaluate it Independent critical eval

But students are adrift in a sea of text without context



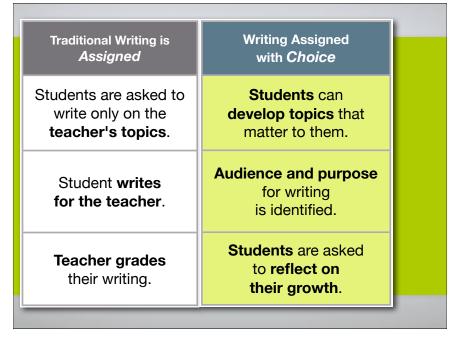






To be succesful in digital age they'll need to be reflective and self-directed





Reflection should be higher-order thinking

It's about patterns, evaluations and creating goals

