

Staff development should model what you expect to see in the classroom

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Two
Essential
Leadership
Questions

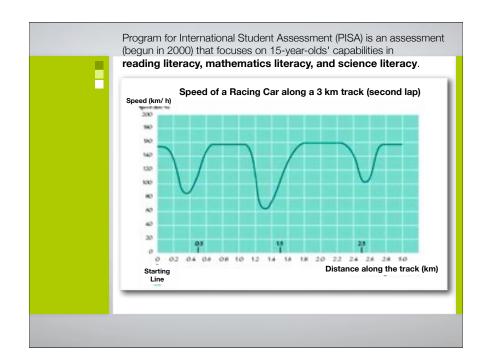
- 1. Have we created a shared vision of teaching and learning?
- 2. How do we organize to achieve the vision?

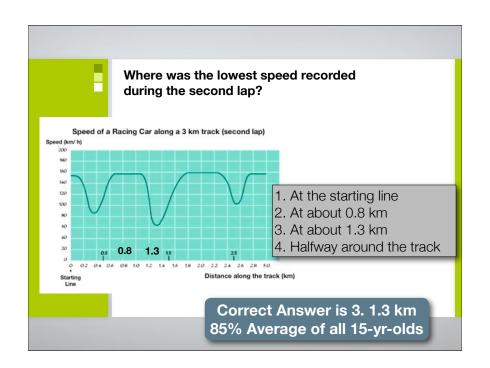
Key components of the vision Reflection

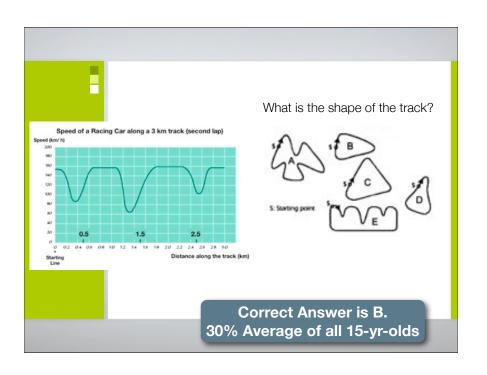
What skills will the 21st century workplace require?

- Literacy
- Numeracy
- Self-discipline

Creativity and adaptability
they must be flexible independent learners





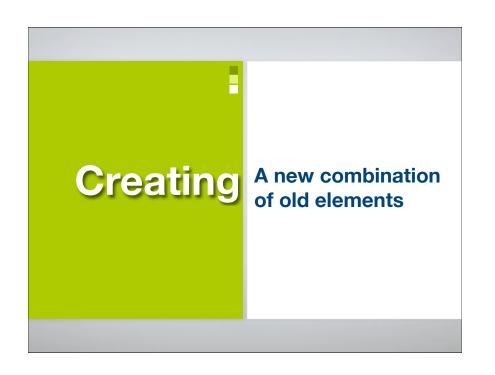


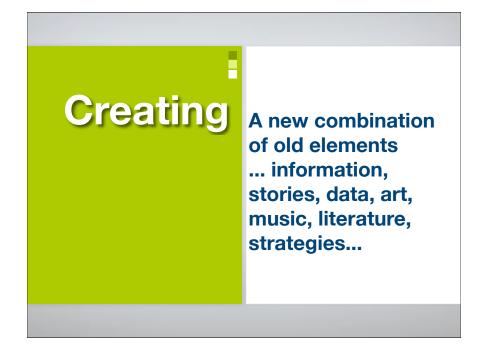
## Problem solving: ...an individual's capacity to use cognitive processes to confront and resolve real, crossdisciplinary situations where the solution is not immediately obvious. ... and where the literacy domains or curricular areas that might be applicable are not within a single domain of mathematics, science, or reading.



Bloom's Taxonomy of Thinking Skills

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





Students are motivated by Relevance

Taking responsibility for their learning

Learning is relevant
when the student:

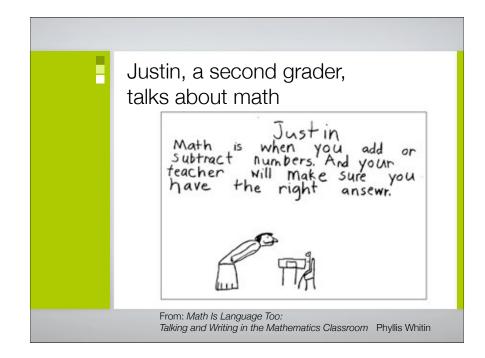
understands how this information or skill has some application in their life.
has an opportunity to follow their own process rather than just learn "the facts."
is not just learning content and skills, but is learning how they learn.

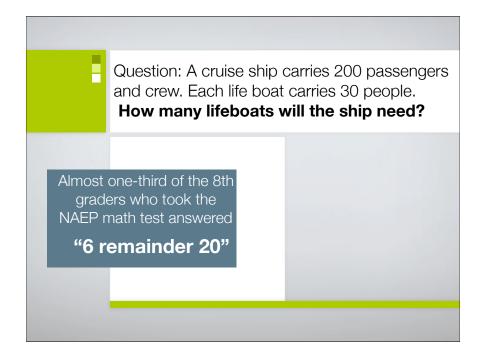
### Motivating Life-long Learners

#1 factor for improving student motivation is choice.

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

~Doug Reeves





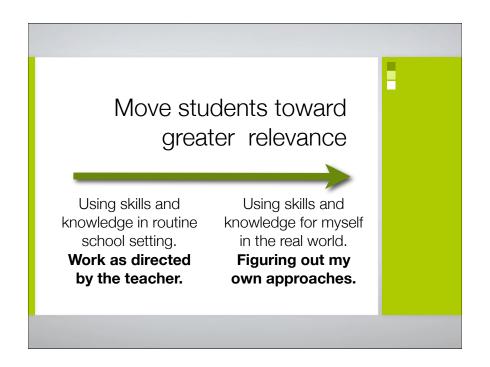
### From a high school valedictorian:

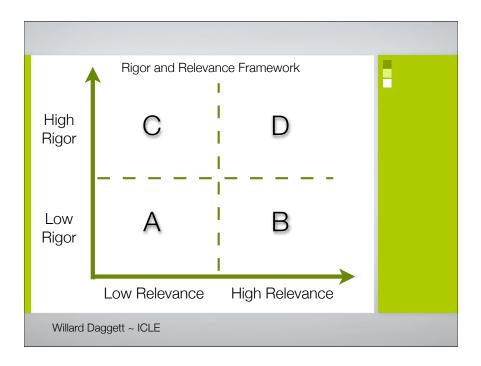
"I could **memorize** very **easily**, and became **valedictorian**.

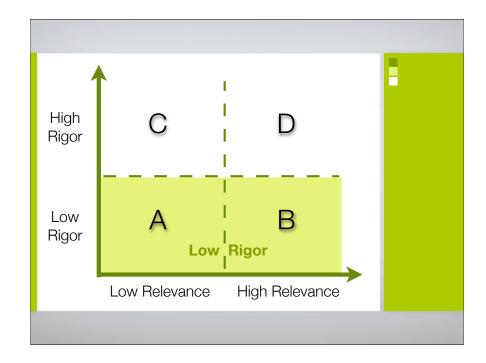
But I was **embarrassed** that I **understood much less** than some other students who cared less about grades.

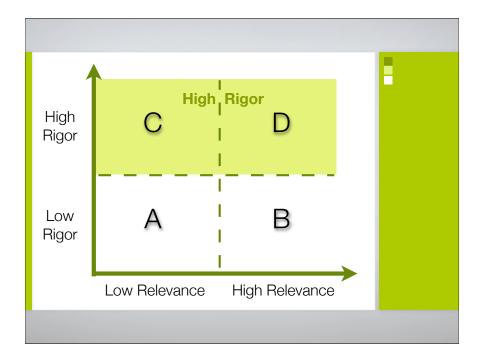
I felt that my **brain** was a way station for **material** going **in one ear** and (after the test) **out the other**."

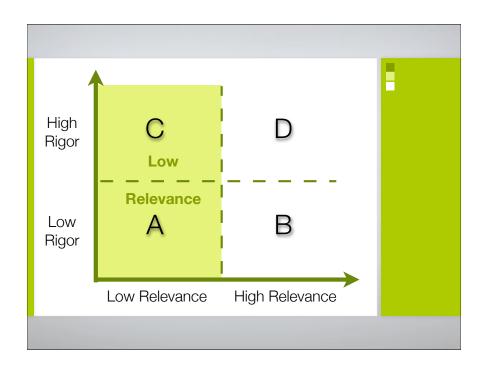
~ High School Student quoted in Wiggins and McTighe Understanding by Design

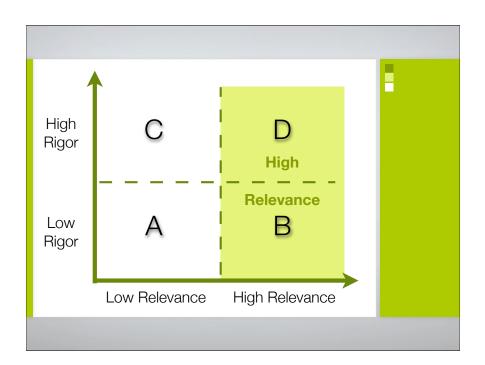


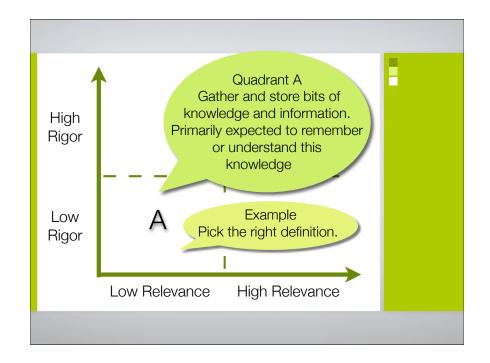


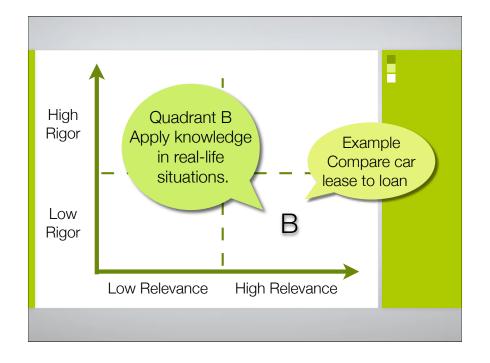


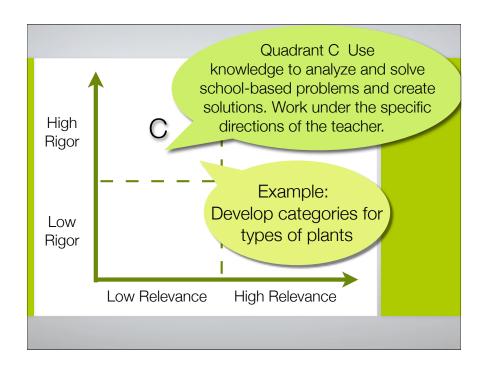


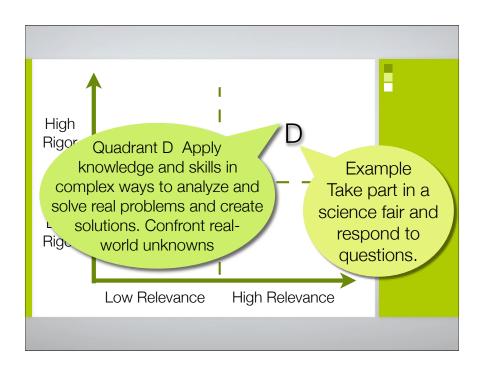


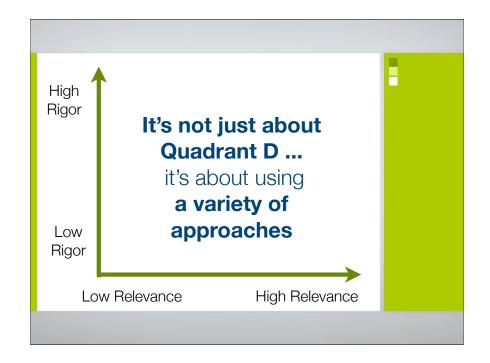


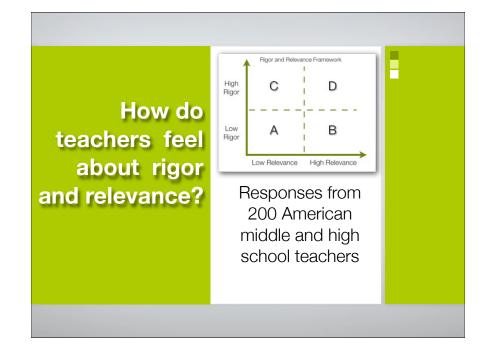


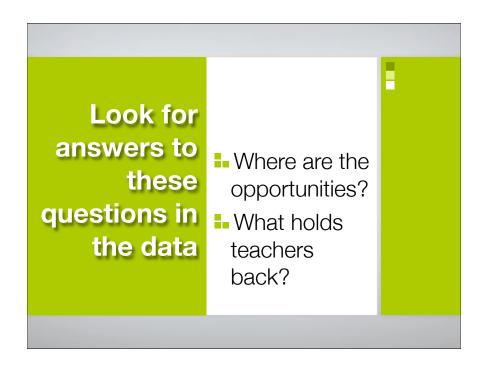


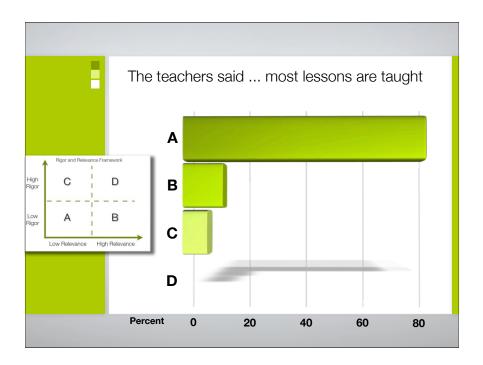


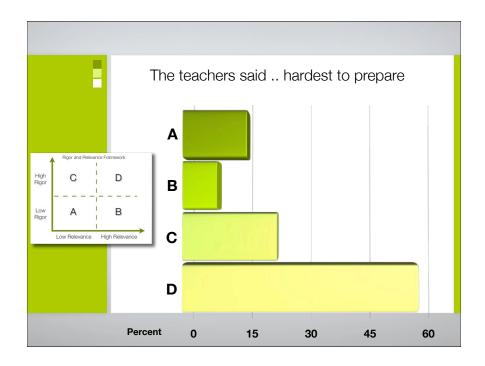


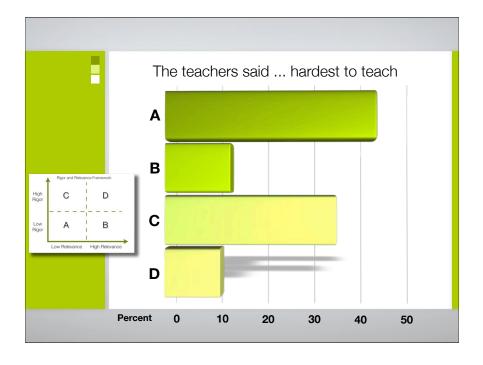


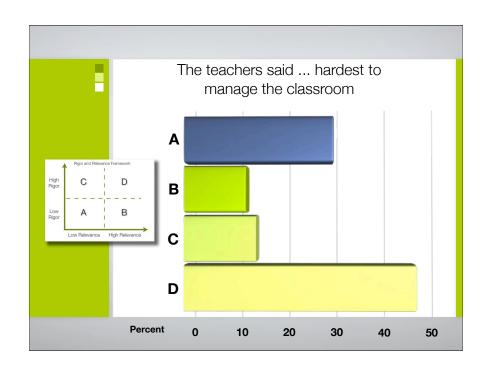


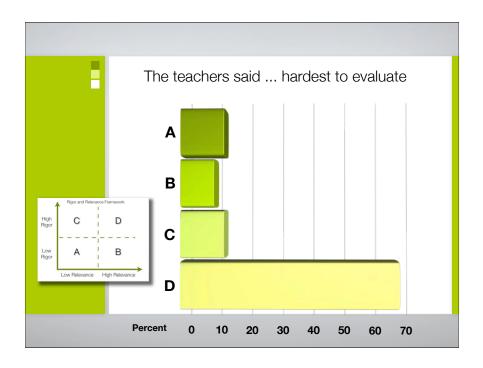


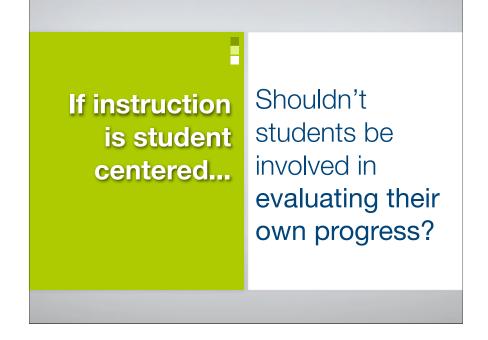


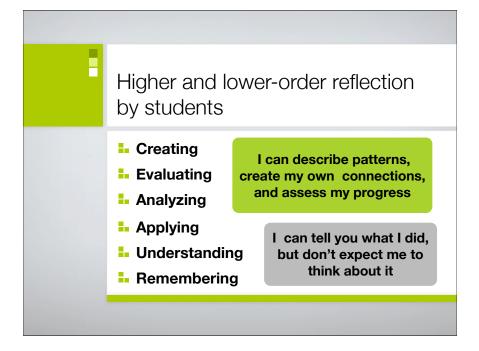


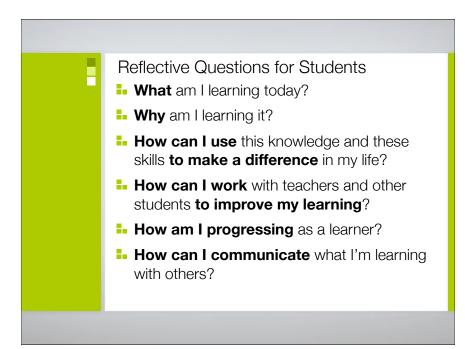






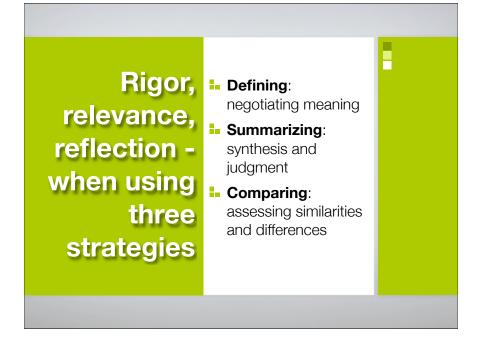






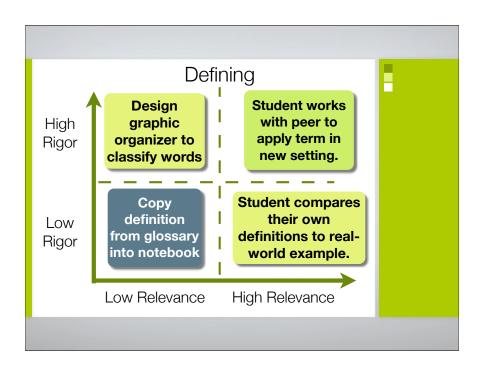
### Students are motivated by Reflection

They monitor and assess their own progress as life-long learners.



## Robert Marzano: What Works in Schools "35 years of research concretely identifies the factors that are the primary determinants of student achievement." Robert J. Marzano, What Works in Schools: Translating Research into Action, 2003

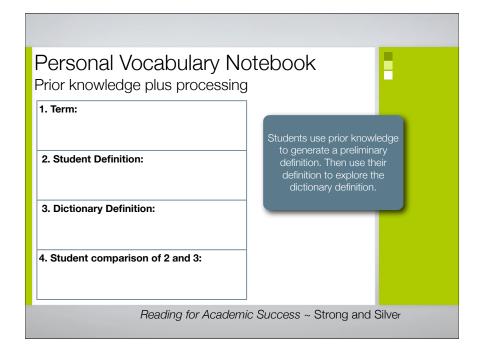


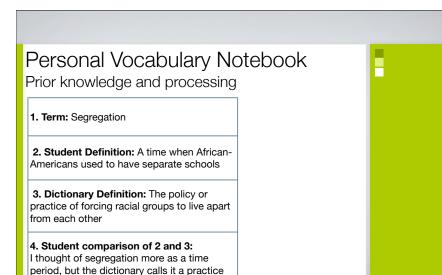


Key look fors when teaching defining

\*Before the dictionary comes out... connect students with their prior knowledge

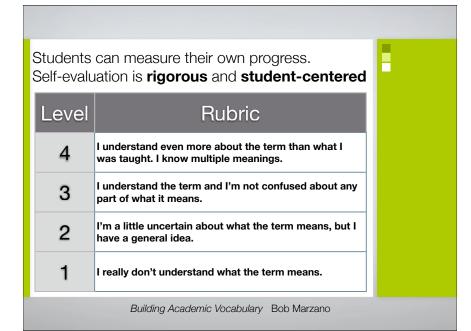
\*After the term has been defined ... give students chances to more deeply process the term

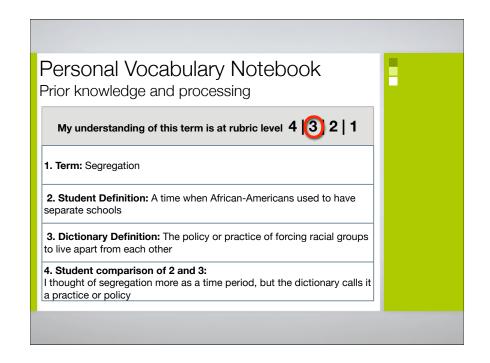


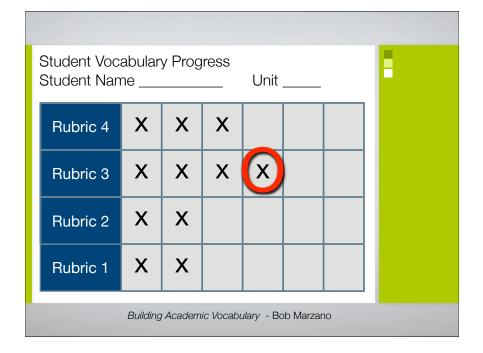


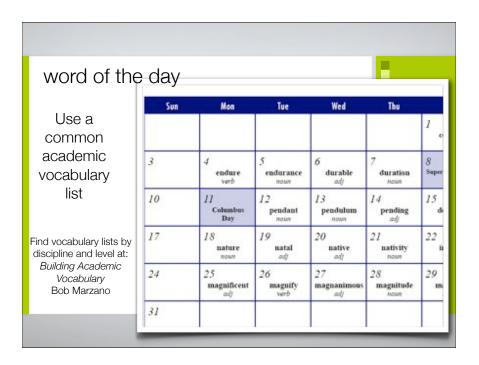
Reading for Academic Success ~ Strong and Silver

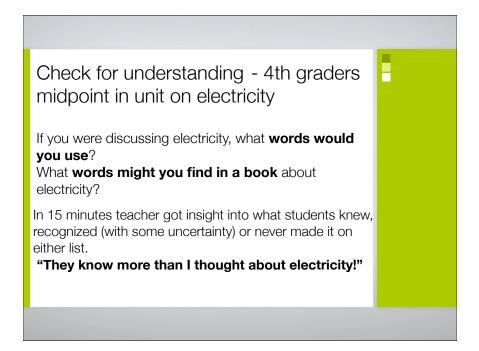
or policy

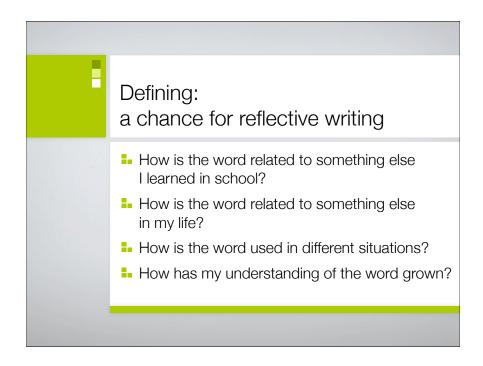


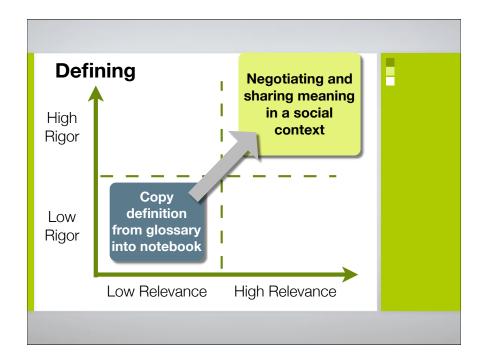


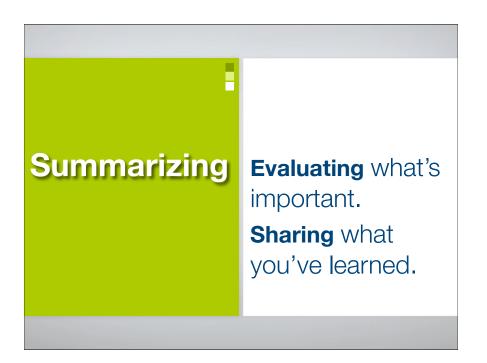


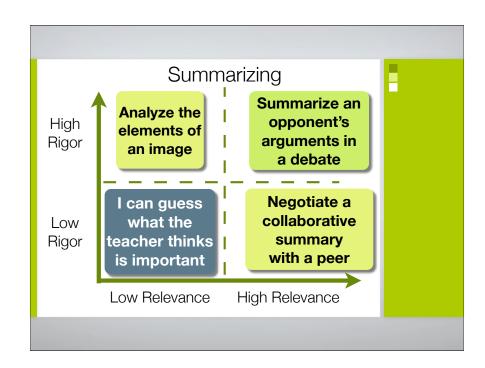


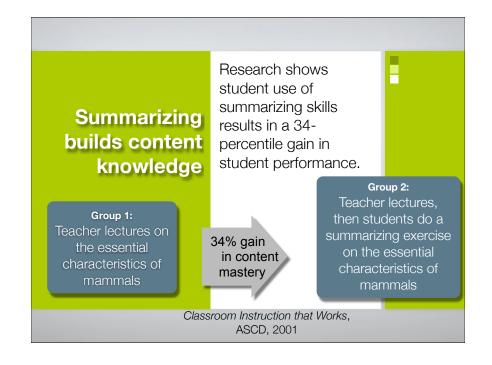


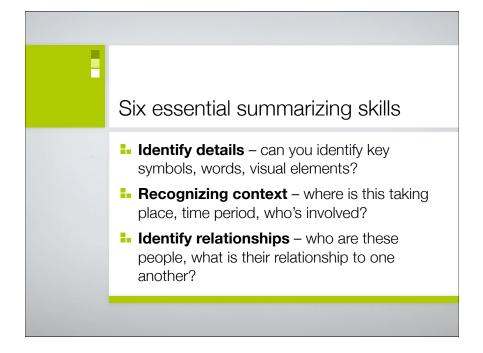












# Continued - Summarizing skills Identify opinions – is there a point of view expressed in the source information? Make predictions – based on the information, what will happen next? Infer meaning – is there meaning that can be extracted from what's between the lines?

#### Elements for teaching summarizing

- Allow students to make their own judgements 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.

# What's important? foot |foŏt|, noun ( pl. feet |fēt|) (Anat.) The terminal part of the leg of man or an animal; esp., the part below the ankle or wrist; that part of an animal upon which it rests when standing, or moving.

#### Elements for teaching summarizing

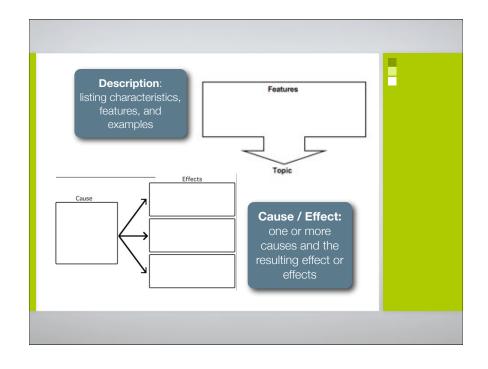
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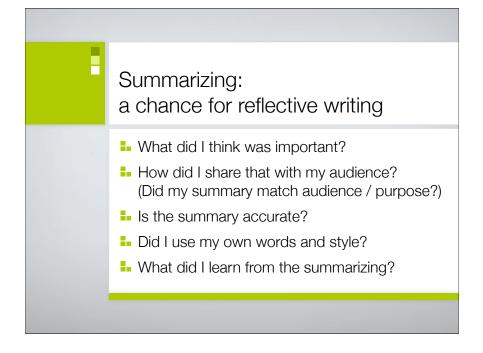
Explaining what you've learned is telling a story using a narrative structure.

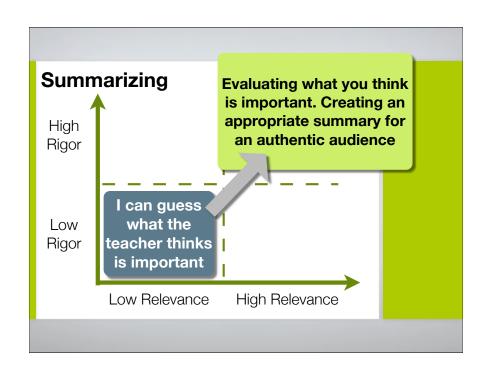
Student may need explicit training about narrative structures.

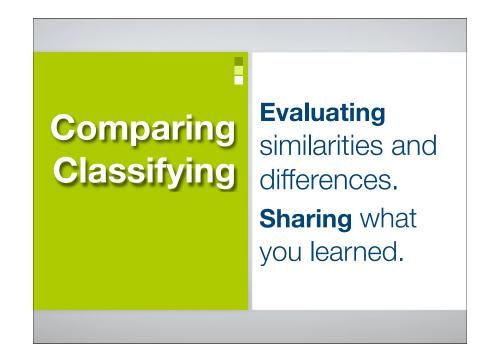
Recognizing how information is organized helps to analyze original work and summarize it for their audience.

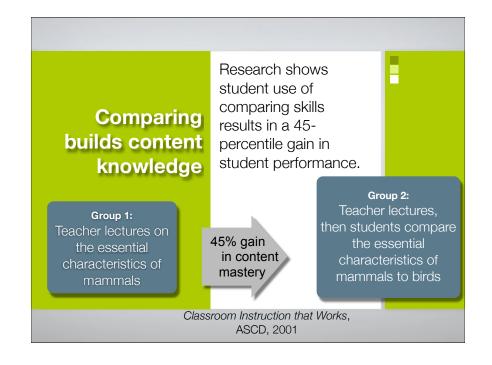
Informational Pattern	Description	Cue Words	В
Description	Describes a topic by listing characteristics, features, and examples	for example, characteristics are	
Comparison	Explains how two or more things are alike and/or how they are different.	different; in contrast; alike; same as; on the other hand	
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	

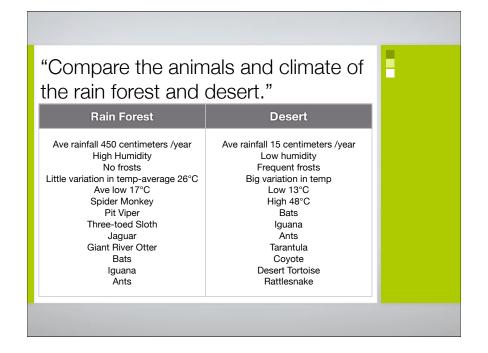


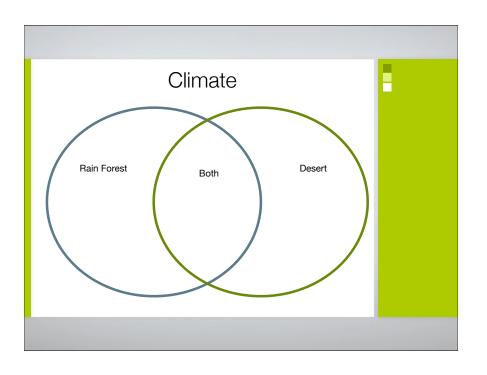


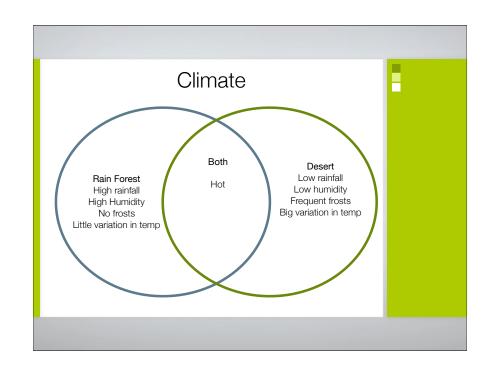












Do you give students chances to develop their comparative models?

They could select items to compare from a teacher-produced list.

They could independently decide what to compare.

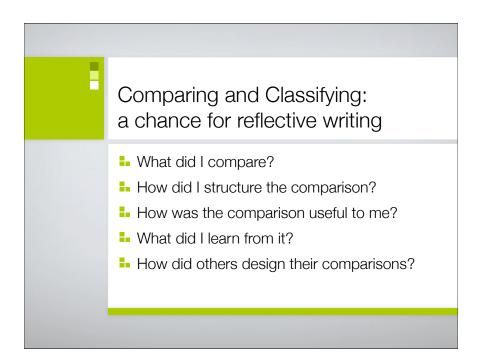
Can include some combination of selecting both the items and / or characteristics.

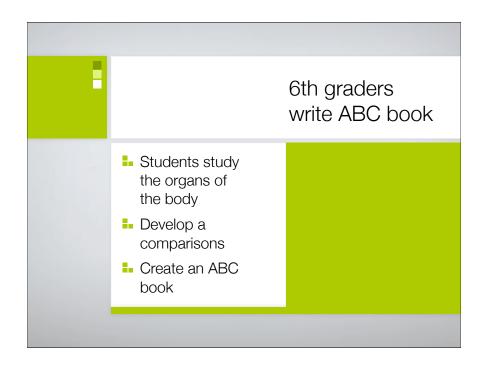
How is the comparison useful?
What do you learn from it?

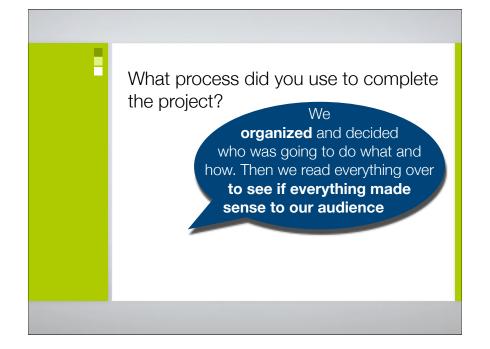
Students can do comparisons in every class.

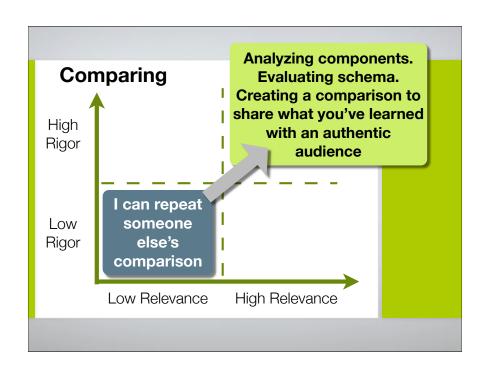
What's more important in a sport ... strength or agility?

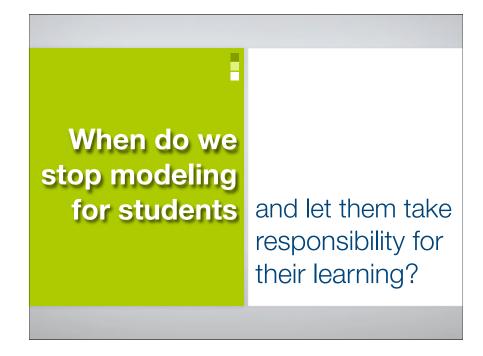
# Key look fors when teaching comparing and classifying Student must share what they learned from the comparison.

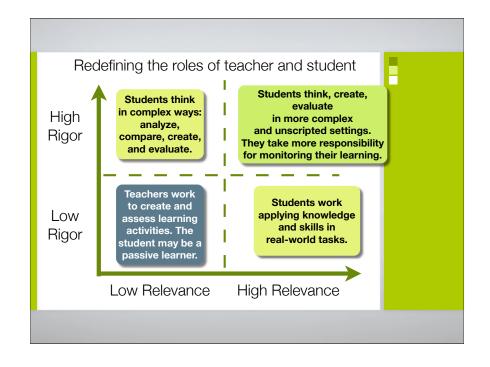


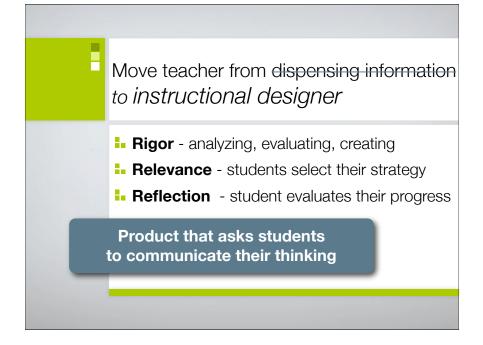












Motivating
Life-long
Learners

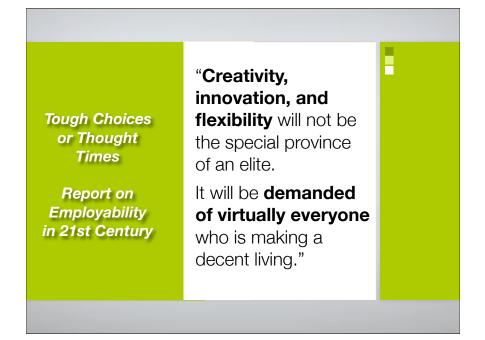
#1 factor for improving student motivation is choice.

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

~Doug Reeves

Traditional Writing is  Assigned	Writing Assigned with <i>Choice</i>
Students are asked to write only on the teacher's topics.	Students can develop topics that matter to them.
Student writes for the teacher.	Audience and purpose for writing is identified.
Teacher grades their writing.	Students are asked to reflect on their growth.

Information is everywhere.
It's not "what" you know, it's what you can do with it.



Our students will also need marketable "soft skills"

Problem-solving
Collaboration
Communicating
Networking

Our goal – students who will be able to function in an unpredictable world.

Learn to research, think, problem-solve and write like a - scientist, engineer, coach, artist, historian, writer, mathematician, musician ....

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