









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

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Students are motivated by Rigor thinking.

Creating is the highest form of

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

Creating A new combination of old elements

A new combination of old ...information, stories, data, art, music, literature, strategies...

Students are motivated by Relevance Taking respectively.

Taking responsibility for their learning

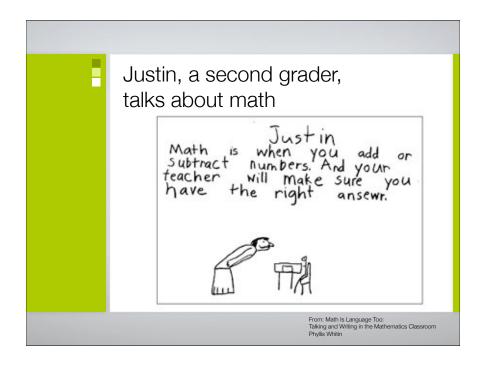
Learning is relevant when the student: -- understands how this information or skill has some application in their life. -- has an opportunity to follow their own process rather than just learn "the facts." -- is not just learning content and skills, but is learning how they learn.

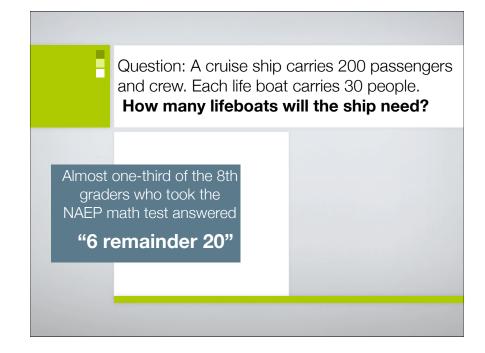
Motivating Life-long Learners

#1 factor for improving student motivation is choice.

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

~Doug Reeves





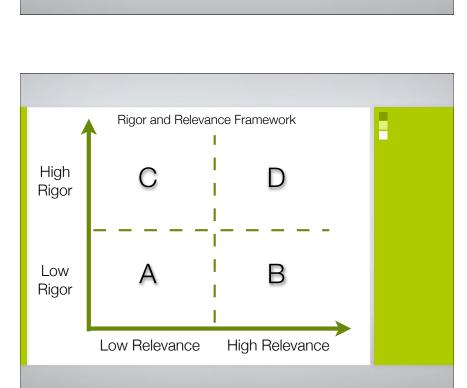
From a high school valedictorian:

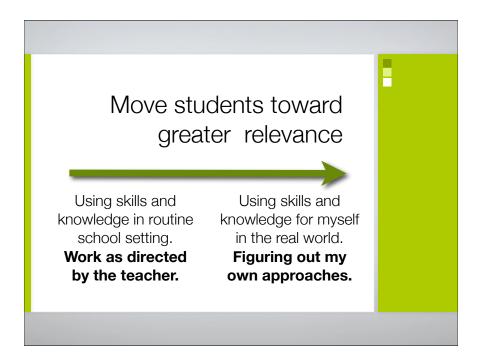
"I could memorize very easily, and became valedictorian.

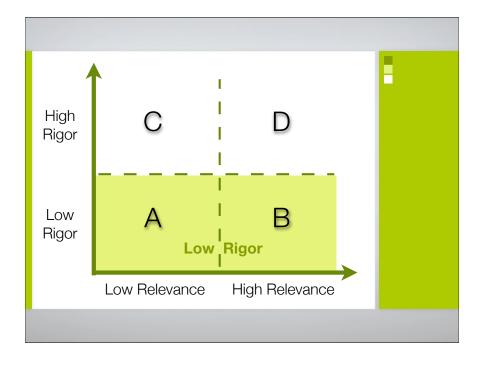
But I was embarrassed that I understood much less than some other students who cared less about grades.

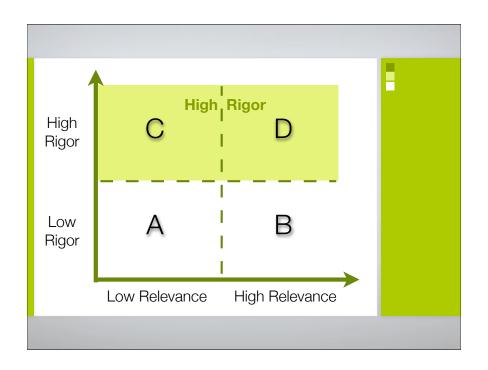
I felt that my brain was a way station for material going in one ear and (after the test) out the other."

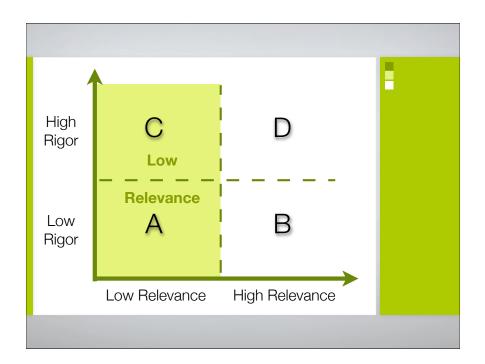
> ~ High School Student quoted in Wiggins and McTighe Understanding by Design

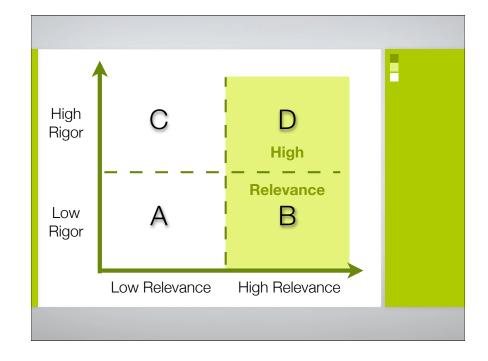


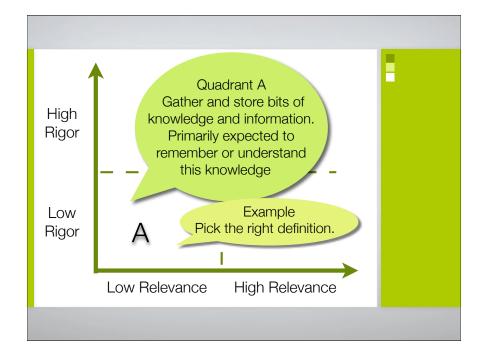


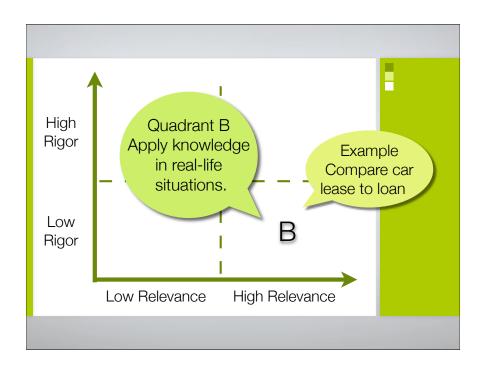


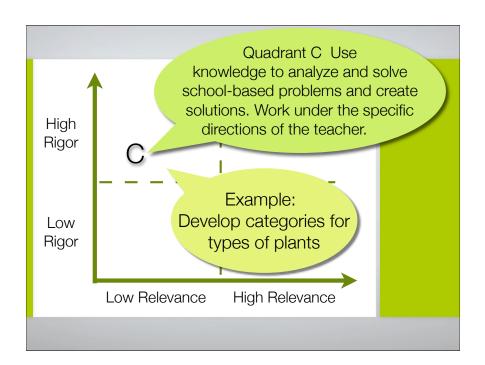


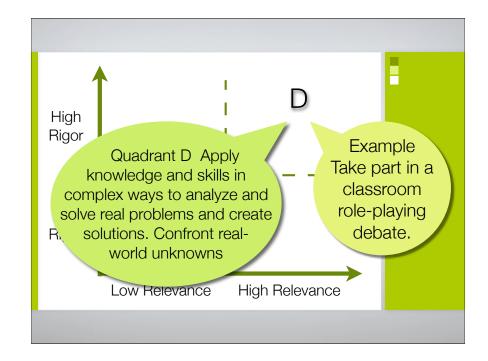


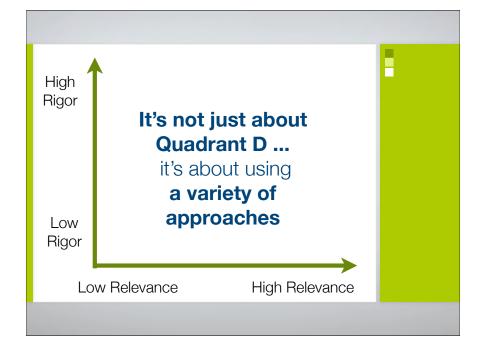


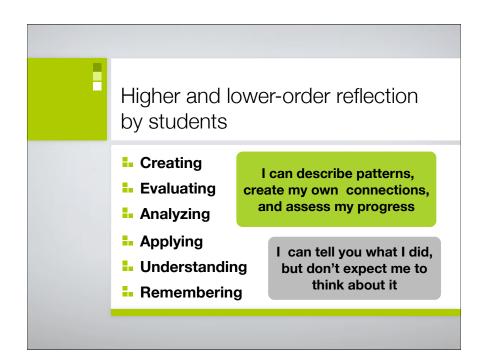


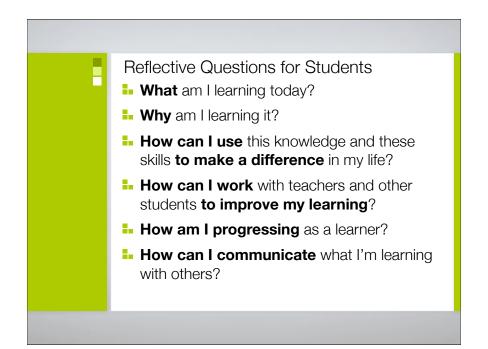






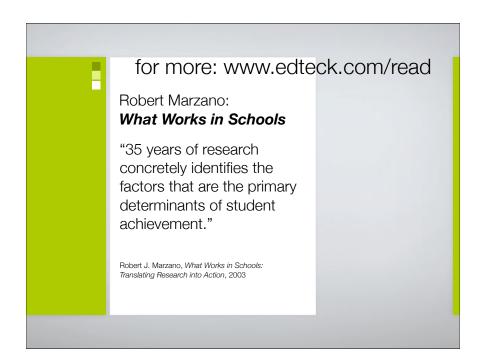




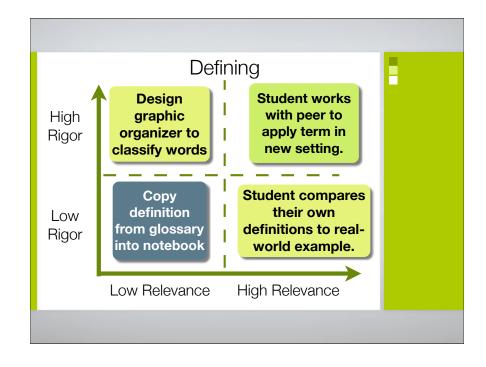


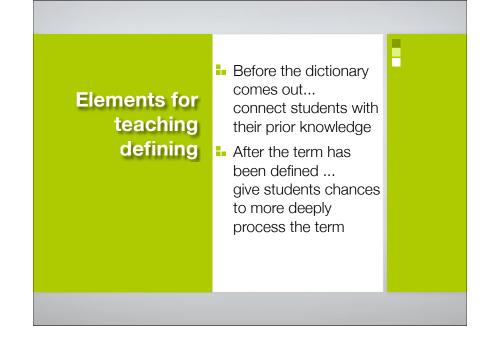
Students are motivated by Reflection They monitor and assess their own progress as life-long learners.

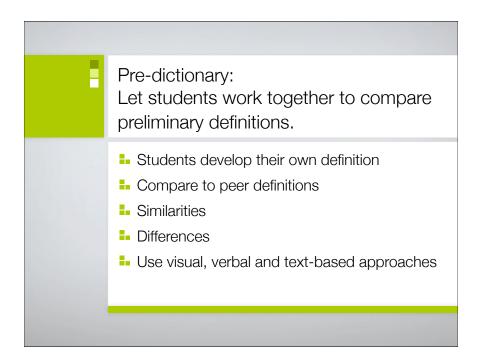


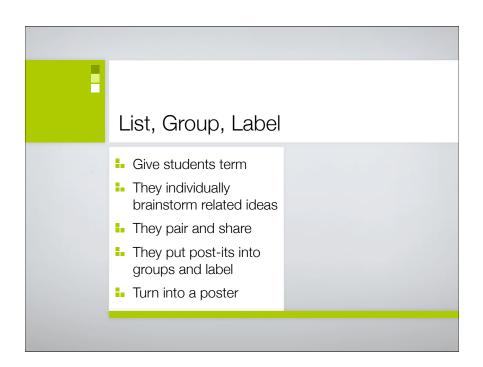


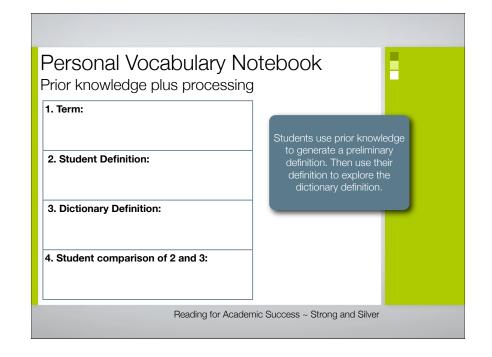


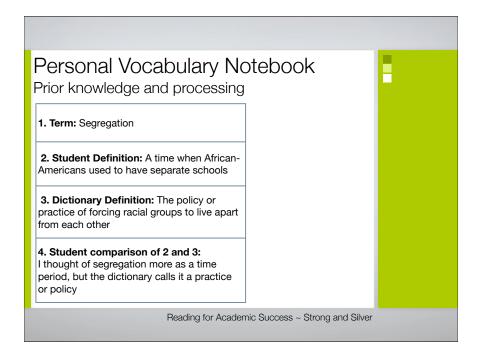






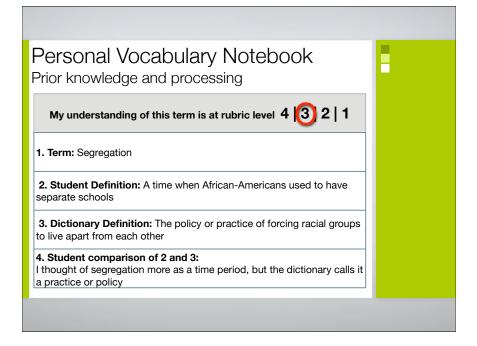


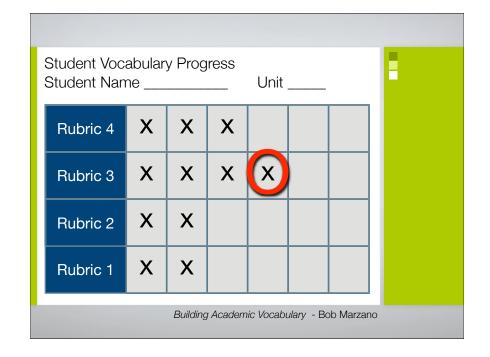




| | can measure their own progress. uation is rigorous and student-centered | 1 |
|-------|---|---|
| Level | Rubric | |
| 4 | I understand even more about the term than what I was taught. I know multiple meanings. | |
| 3 | I understand the term and I'm not confused about any part of what it means. | |
| 2 | I'm a little uncertain about what the term means, but I have a general idea. | |
| 1 | I really don't understand what the term means. | |

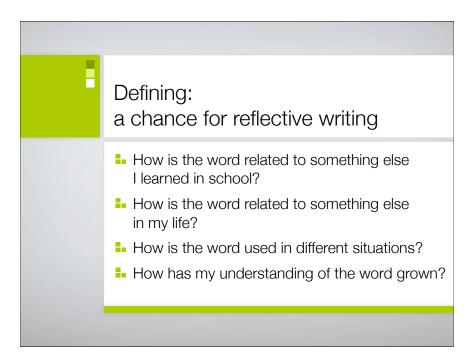
Building Academic Vocabulary Bob Marzano

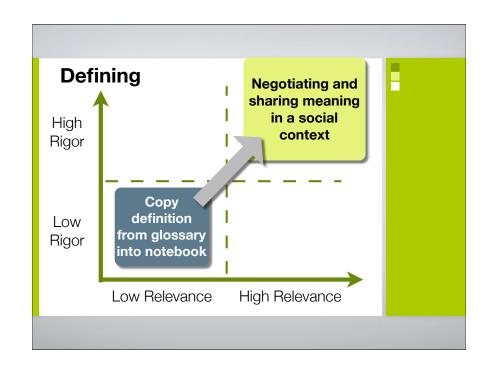




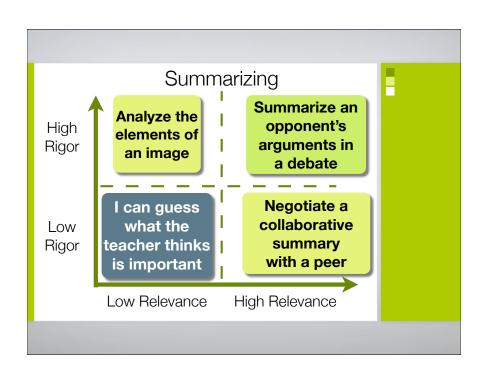


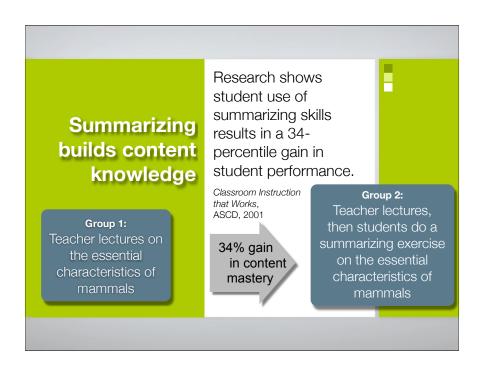
Elements for teaching defining - After the term has been defined ... give students chances to more deeply process the term

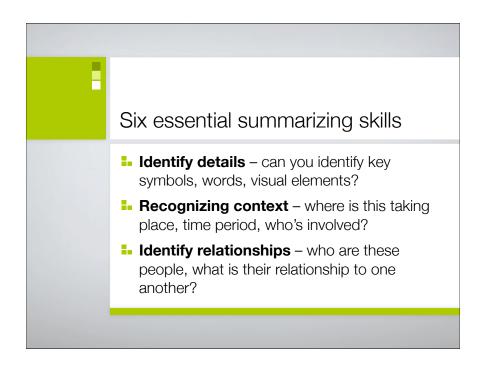


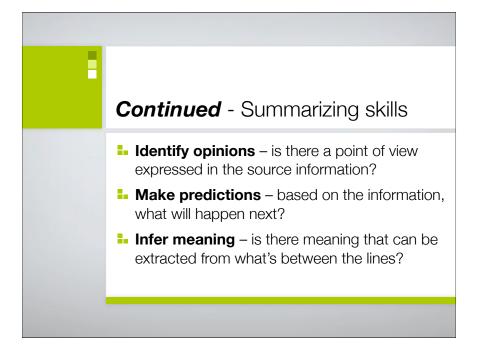




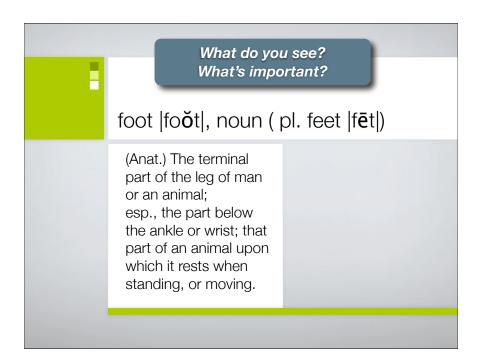


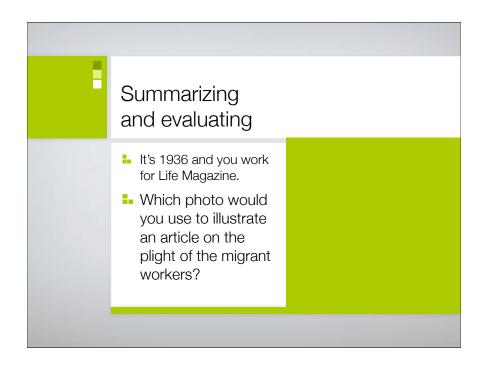


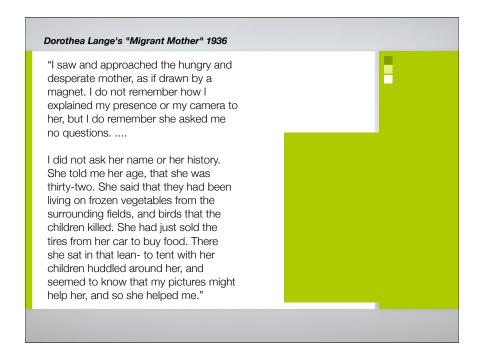




Elements for teaching summarizing - Allow students to make their own judgements about what's important (instead of just repeating the details the teacher highlights) - Students need to be able to share what they've learned with an audience other than the teacher.







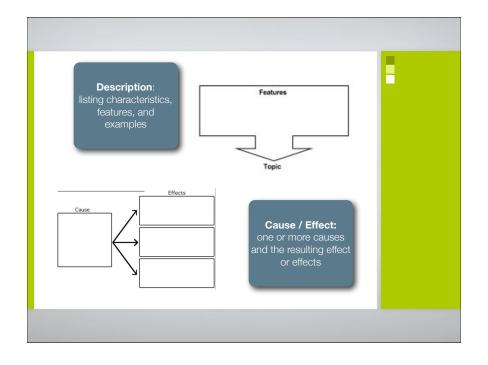
Elements for teaching summarizing

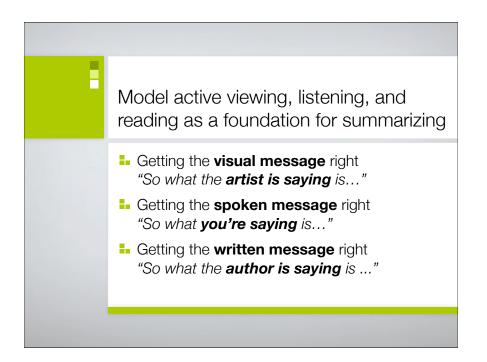
- Allow students to make their own judgements about what's important (instead of just repeating the details the teacher highlights)
- Students need to be able to share what they've learned with an audience other than the teacher.

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

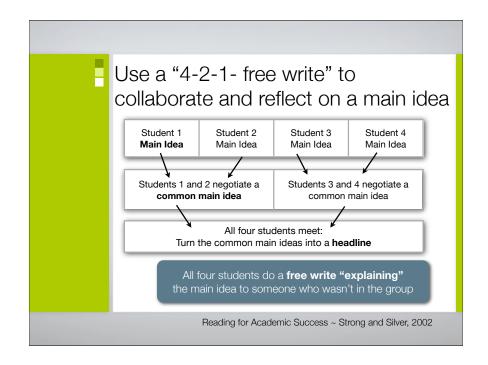
- Student may need **explicit training** about **narrative structures**.
- Recognizing how information is organized helps to analyze original work and summarize it for their audience.

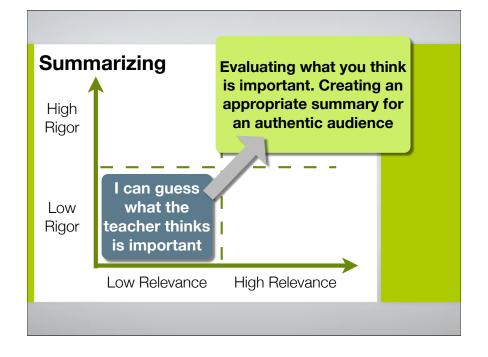
| Narrative Frame | Description | Cue Words | |
|-----------------------|--|---|--|
| Description | Describes a topic by listing characteristics, features, and examples | for example, characteristics are | |
| Comparison | Explains how two or more things are alike and/or how they are different. | different; 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 | |





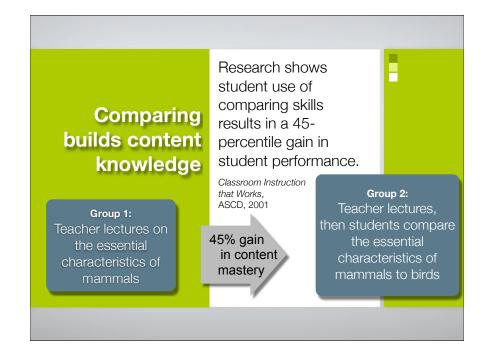


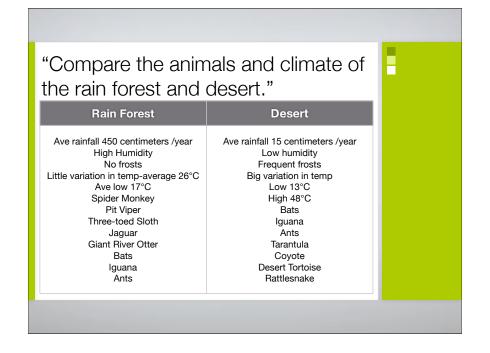


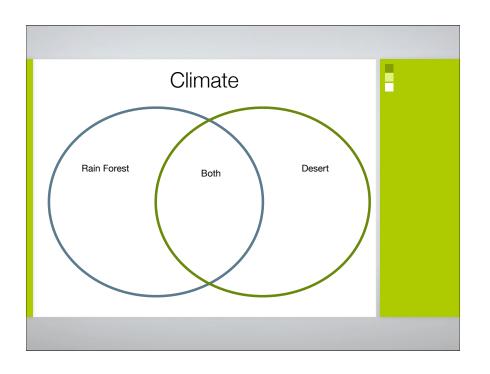


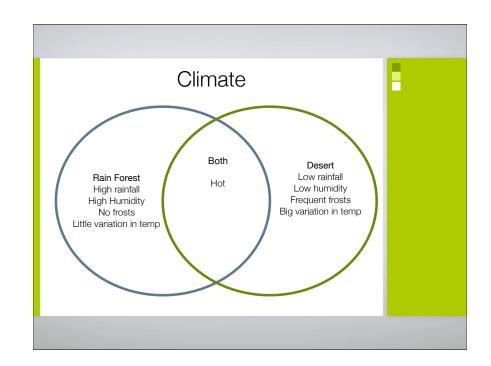
Summarizing: a chance for reflective writing What did I think was important? How did I share that with my audience? (Did my summary match audience / purpose?) Is the summary accurate? Did I use my own words and style? What did I learn from the summarizing?











Do you give students chances to develop **their own** 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 does it enable us to do or see?

Students can do comparisons in every class.

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

Move students from comparing to classifying We typically ask students to take someone else's classification system and apply it. We rarely ask students to generate a classification system of their own. List, group, label strategy Students create classification systems with Post-its.

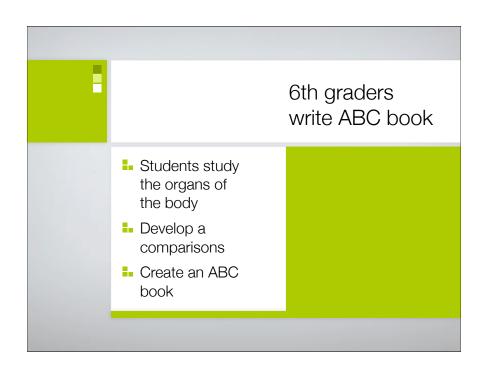
Rigor and relevance in practice:
Student-designed classifying exercise

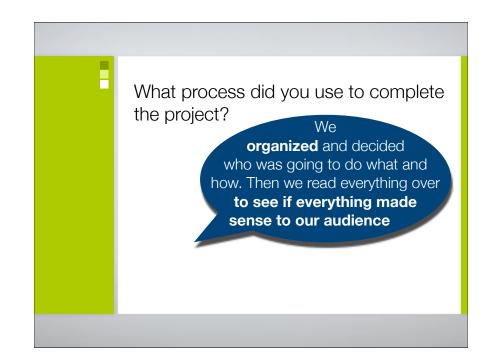
What do I want to classify?
What things are alike that I can put into a group?
Does everything fit into a group now?
Would it be better to split up any of the groups or put any groups together?

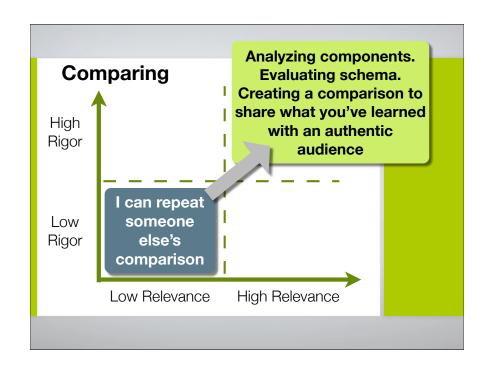
Elements for teaching comparing and classifying Students to develop the comparison, not just learn and repeat the model that we present to them. Student must share what they learned from the comparison.

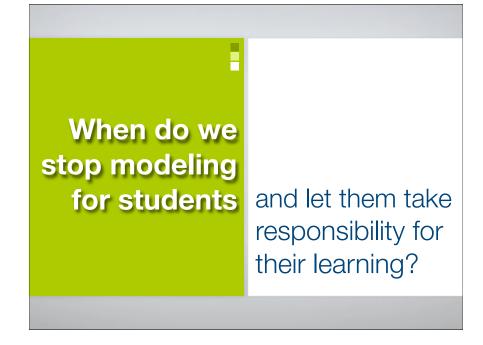
Comparing and Classifying:
a chance for reflective writing

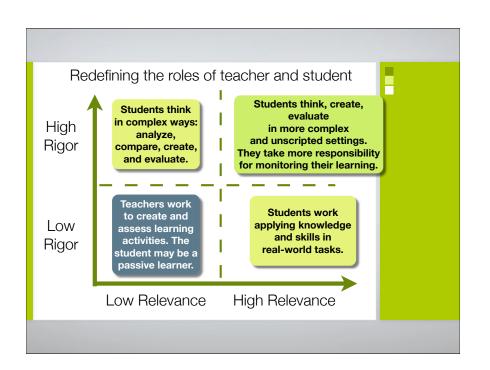
What did I compare?
How did I structure the comparison?
How was the comparison useful to me?
What did I learn from it?
How did others design their comparisons?

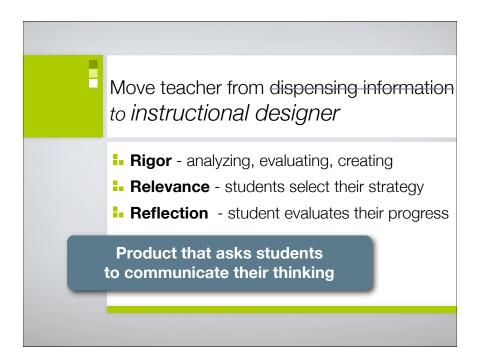












| | Motivating Life-long Learners | #1 factor for improving student motivation is choice. Not whether the student does the assignment, but how they engage in the work. ~Doug Reeves |
|--|-------------------------------------|--|
|--|-------------------------------------|--|

| 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. |

New digital technologies have put students in charge of the information they access, store, analyze and share.

Digital age gives students access to information and higher order thinking tools.

Bloom's Higher-Order Skills

- Creating generating new ideas
- **Evaluating** justifying a decision or choice
- Analyzing breaking into component parts

What skills will the 21st century workplace require?

- Literacy
- Numeracy
- Self-discipline

Creativity and adaptability they must be flexible independent learners

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