


Rigor, Relevance and Reading for Struggling to Average Readers

Rigor, Relevance and Reading for Struggling to Average Readers

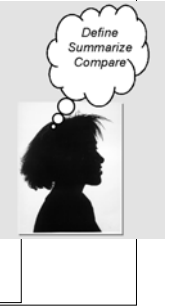
Peter Pappas
Model Schools
Conference
June 2005



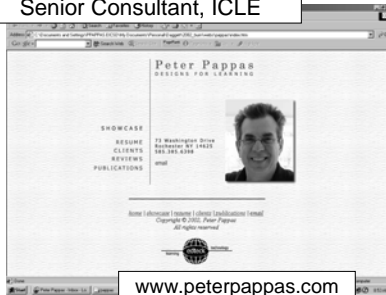
Agenda

1. Building background knowledge
2. Rigor, Relevance and Learning strategies
3. Using the strategies

Also workshop #63
for High-Performing Readers
Plus additional #62 Tues at 11



Senior Consultant, ICLE



www.peterpappas.com

NCLB - a revolution in accountability

"Student achievement is primarily the function ... **background** of the student."
Jencks Report 1972

"... **all children** must reach ... proficiency on challenging state academic assessments."
NCLB 2001

Doug Reeves on "targeting success"
the key to NCLB

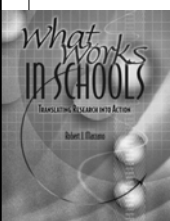
Student Achievement	High scores	Lucky High results Low understanding	Leading High results High understanding
	Low scores	Losing Low results Low understanding	Learning Low results High understanding

Understanding what improves student performance
Low level High level

Robert Marzano:
What Works in Schools

"35 years of research concretely identifies 11 factors that are the **primary determinants of student achievement.**"

Robert J. Marzano, What Works in Schools: Translating Research into Action, 2003



The factors that impact student performance

1. **Student:** background knowledge, motivation, fluid intelligence, home environment
2. **School:** curriculum, learning environment
3. **Teacher:** learning strategies, management, goals and feedback

We'll focus on factors you can "grow"

1. Student: **background knowledge**, motivation, fluid intelligence, home environment
2. School: curriculum, learning environment
3. Teacher: **learning strategies**, management, goals and feedback

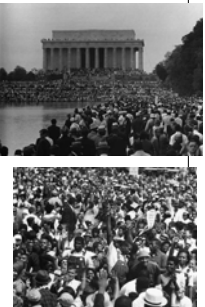
The importance of background knowledge

- **What students already know** about a subject is one of the strongest indicators of how well they will **learn new information** relative to the subject
- Our focus is on **academic** background knowledge

A one-hour introductory workshop by Peter Pappas
www.peterpappas.com

Rigor, Relevance and Reading for Struggling to Average Readers

Why is background knowledge important?



Listen, view and read:
March On Washington
1963


The importance of background knowledge

Auditory processing:
skills to identify
what's said in the
message

and

**Background
knowledge**
that provides context


Students listen to an audio
tape of Kings'
"I Have a Dream Speech"



Visual processing:
skills to identify the
elements in the image

and

Background knowledge:
that provides context




From
"I Have a Dream"
Martin Luther King

Text processing:
skills to decode the text
and background knowledge
that provides context

"I have a dream that one day this nation will rise up and live out the true meaning of its creed: 'We hold these truths to be self-evident: that all men are created equal.'"

I have a dream that one day on the red hills of Georgia the sons of former slaves and the sons of former slave owners will be able to sit down together at the table of brotherhood

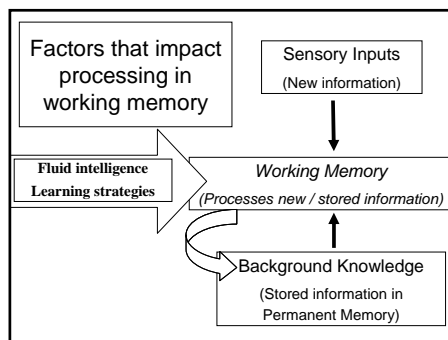
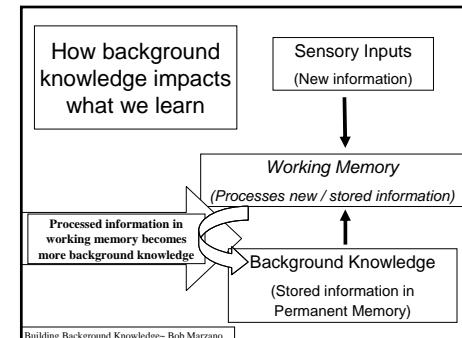
I have a dream that my four little children will one day live in a nation where they will not be judged by the color of their skin but by the content of their character."



**Background knowledge and
Visual processing**
That becomes more
abstract with use of irony
and exaggeration

"Now I aint so sure I wanna get educated."

September 21, 1963



Fluid intelligence and academic experience impact growth of background knowledge

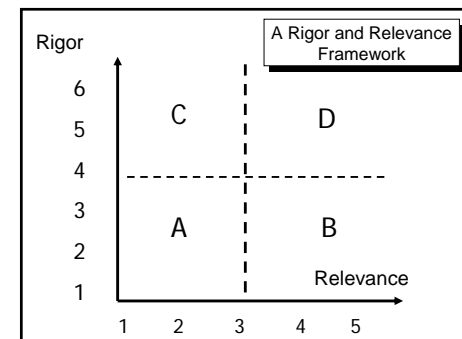
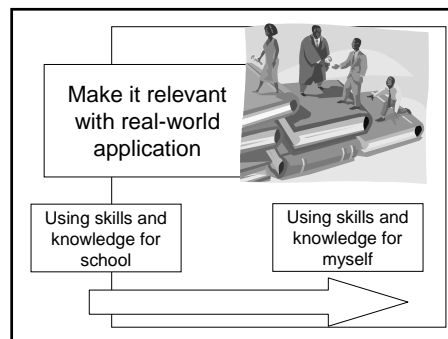
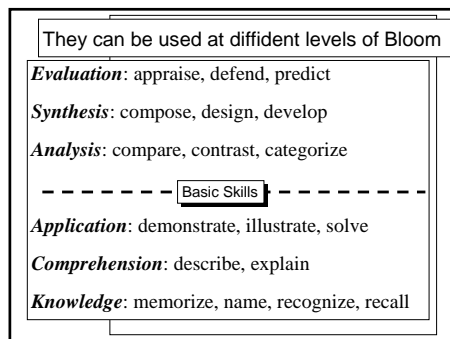
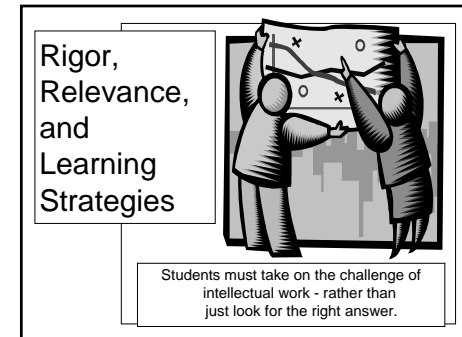
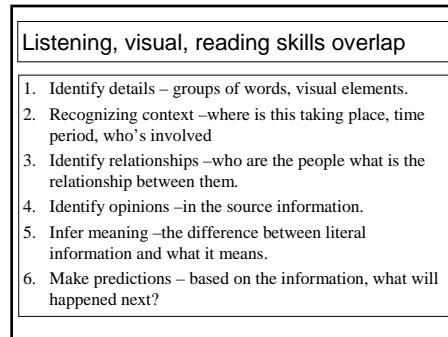
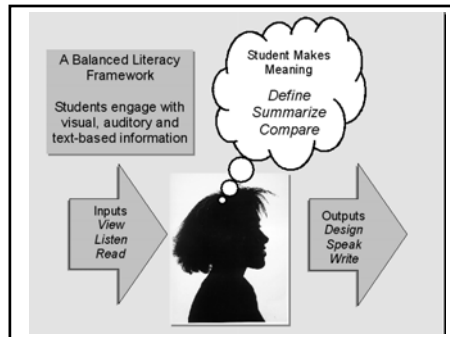
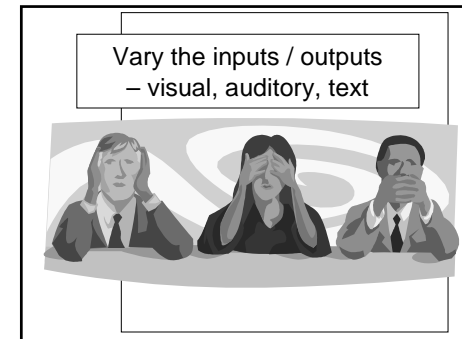
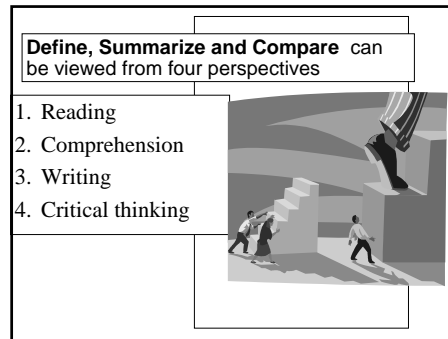
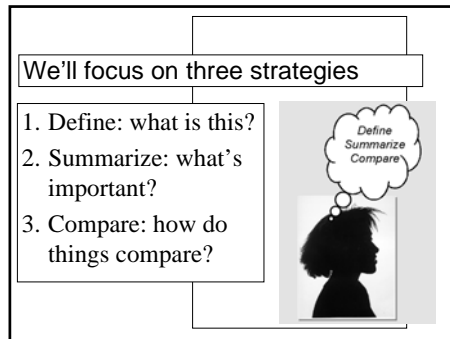
Fluid Intelligence	Academic experience		
	Low	Medium	High
High	Robin	Alejandro	Zoe
Medium	Jamal	Tevin	Pablo
Low	Brittany	Marquis	Linda

Help students process information and build new background knowledge

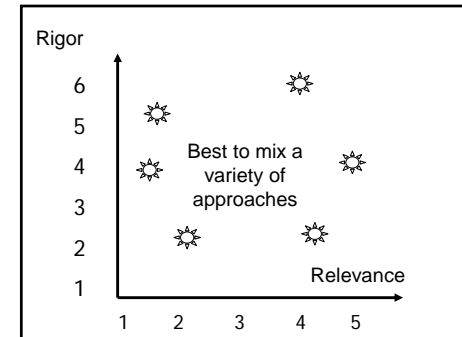
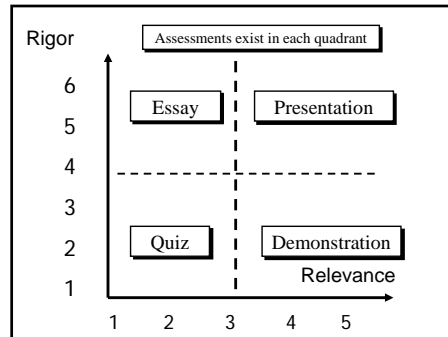
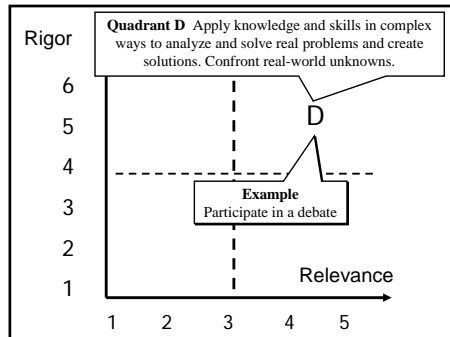
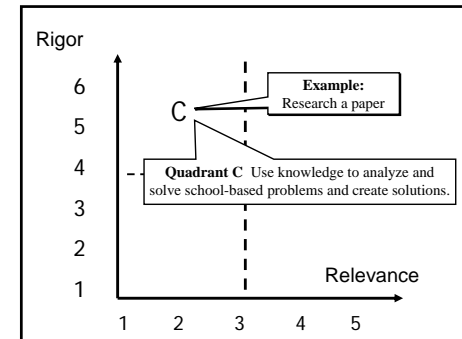
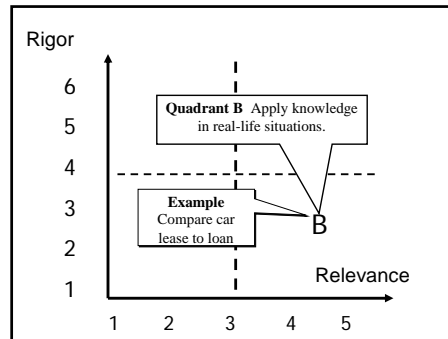
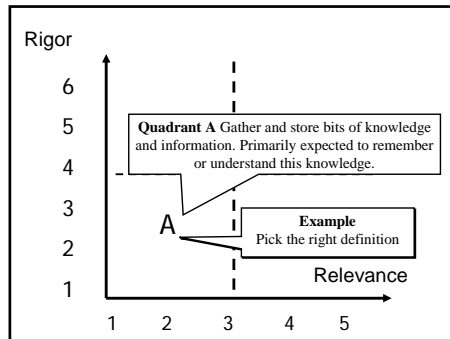
Enhance the academic experience with effective learning strategies

Fluid Intelligence	Academic experience		
	Low	Medium	High
High	Robin	Alejandro	Zoe
Medium	Jamal	Tevin	Pablo
Low	Brittany	Marquis	Linda

Rigor, Relevance and Reading for Struggling to Average Readers



Rigor, Relevance and Reading for Struggling to Average Readers



Motivate students - connect them to their learning

What am I learning today?
Why am I learning it?
How can I use this knowledge and these skills to make a difference in my life?
How can I work with teachers and other students to improve my learning?

Motivate with the right skills applied to the appropriate task

You have to know your students and set the instructional target at the correct distance

- Too close – boring
- Too far – give up

Need to find the right balance between knowledge, skills and thinking process


Motivate students with meaningful feedback

Frequent and on-going measures of progress
Compare to **rubrics of good work**
Strive to get students to **own their learning** and **measure their own progress**

Move from depending on the teacher to students able to identify their own strengths and weaknesses

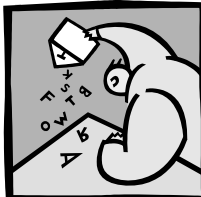
Rigor, Relevance and Reading for Struggling to Average Readers

Use **essential** questions




- Overarching
- No obvious right answer
- More rigorous – analysis, synthesis, evaluation
- Provoke and sustain student interest
- Timeless – relevant

Guide students to use learning strategies to build background knowledge



“What’s going on here?”
“What do you see that makes you think so?”

Remember ... it’s also about literacy skills!



Are performance gaps caused by poor motivation and effort or are they really problems in reading comprehension?

Di Tri Berrese

Do I Really Have to Teach Reading?~Tovani

Uans appona taim uas tri berrese: mamma berre, pappa berre, e bebi berre. Live inne contri nire foresta. Naise Aus. (No mugheggia.) Uanne dei pappa, mamma, e beibi go tooda bice, onie, a furghette locclie di doore.

Bai enne bai commese Goldilocchese. Sci garra naltinche tu do batte maiche troble. Sci puscie olie fudde daon di maute; no live cromme. Den set gos appesterrese enne slipse in olle beddse. Leiei Slobbe!

"The Three Bears" Translation

Once upon a time was three bears: mama bear, papa bear, and baby bear. Live in the country near forest. Nice House. (No mortgage.) One day papa, mama, and baby go to the beach, only they forget to lock the door.

By and by comes Goldilocks. She got nothing to do but make trouble. She push all the food down the mouth; no leave crumb. Then she goes upstairs and sleeps in all the beds.

Lazy Slob!

Effective literacy **demands** fluency


- Some students do not yet read words with **enough fluency to facilitate comprehension.**
- Some **lack the strategies** to help them **comprehend what they read.**
- Some may **not be able to generalize their strategies to content-area literacy tasks** and lack strategies **specific to particular subject areas**, such as math, science, or history.

Reading is *Constructing Meaning*

1. **Reading is thinking.** Well-written materials model good thinking.
2. Foundation for **expressive writing**
3. Thoughtful readers become **thoughtful problem solvers** and better students.

Brad - high school senior

“I don’t look at a book as a whole bunch of words... I look at it as **someone’s thinking** and the **information the author wants me to know.**”



From: Do I Really Have to Teach Reading?
~ Cris Tovani

The single highest failure rate in high school is Algebra I

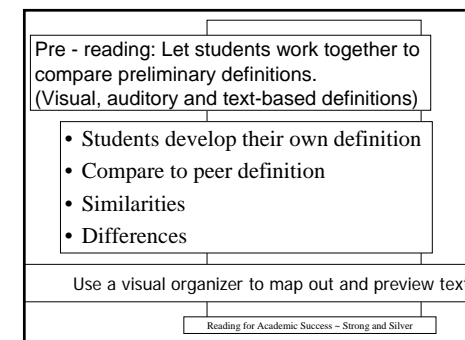
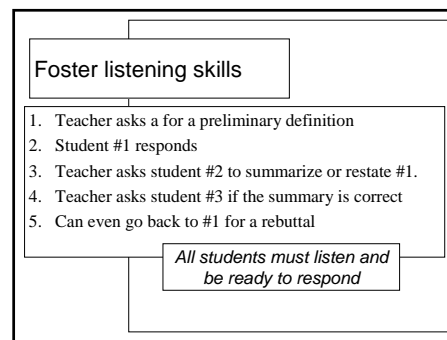
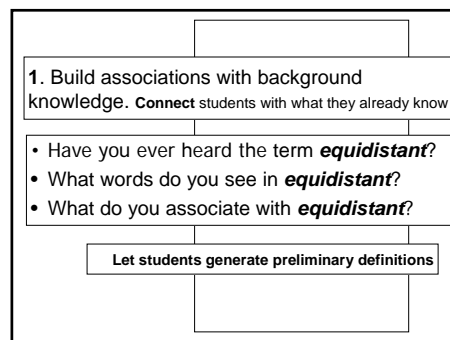
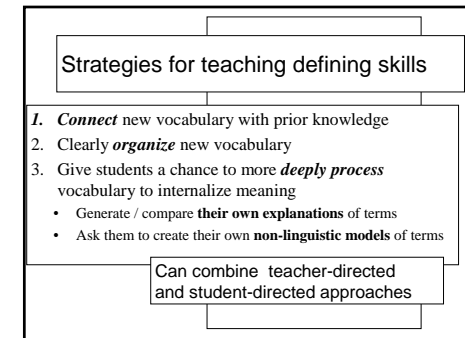
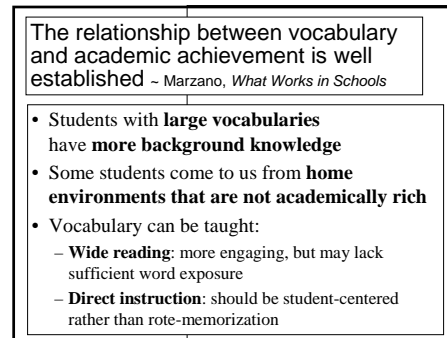
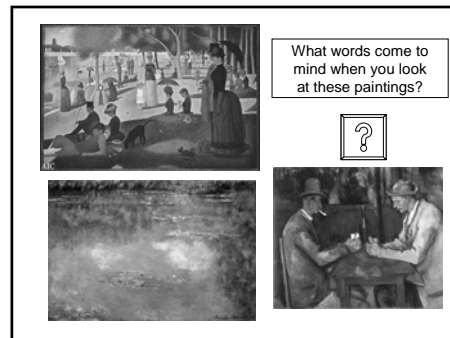
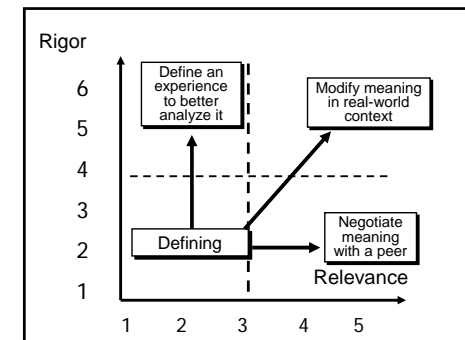
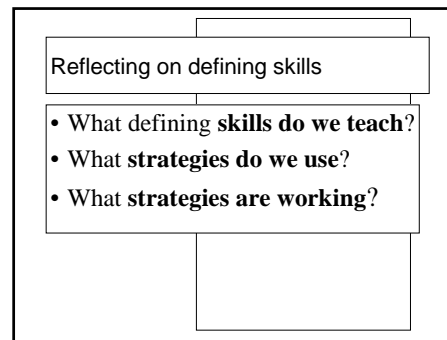
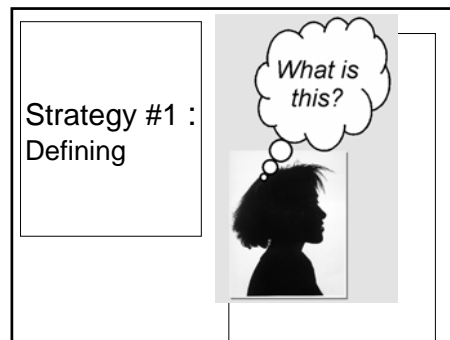
“After pregnancy, it’s the leading indicator of high school dropout.

The leading indicator of success in Algebra I is English 8.

The Algebra I test is a reading test with numbers”

~ Doug Reeves, District Administrator April ‘05

Rigor, Relevance and Reading for Struggling to Average Readers



Rigor, Relevance and Reading for Struggling to Average Readers

How well do I know these words?	
Don't know this word at all	
Have seen or heard, but don't know meaning	
I think I know meaning	
I know meaning of this one	

Words, Words, Words – Allen

From Unknown to Known	
This word is totally new to me	
Have seen or heard, but I'm not sure what it means	
I know one definition of this word	
I know several ways this word can be used	

Words, Words, Words – Allen

List, Group, Label Example "Revolution"
<ol style="list-style-type: none"> 1. List all the words they can think of related to the subject 2. Group the words that you have listed by looking for word that have something in common 3. Once grouped, decide on label for each group
Use a variety of skills - prior knowledge, identifying, listing Use words in multiple contexts allow to be creative. Group work exposes students to thinking of others

Words, Words, Words – Allen

Teach students meanings word parts - prefixes, suffixes, and roots. Students become "detectives" using the word part "clues."	
Equator Equilibrium Equivalent Equation Equilateral Equidistant	Equal Equality Equitable Equity Equinox Options: List words. Students predict meaning. Discuss predictions. Refine meaning

Use word parts to negotiate meaning for these "new terms"	Adolescent Spim
Adolescent , n., a 24-year old too busy playing Halo 2 on his Xbox or watching SpongeBob at his parents' house to think about growing up. spim , n., unwanted commercial messages received in an instant-messaging program. From spam plus instant messaging.	

2. Students remember new terms when they are clearly organized		
Cube Cone Lines Intersection Rays Parallel lines Trapezoid	Polygon Cylinder Sphere Rectangle Square Endpoints Pentagon	Parallelogram Rhombus Pyramid Tetrahedron Prism Triangle Points

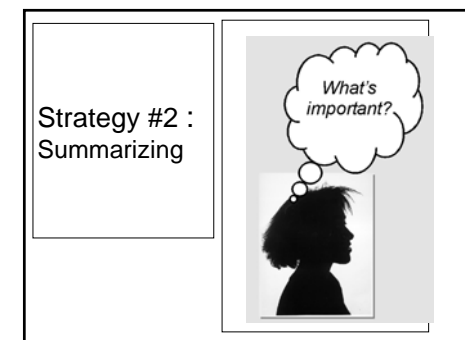
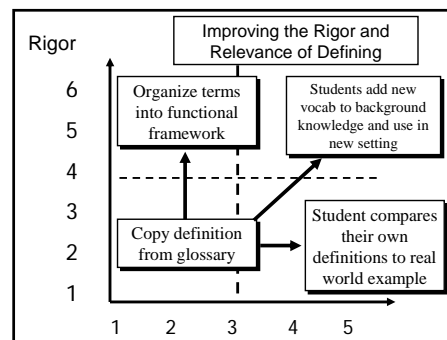
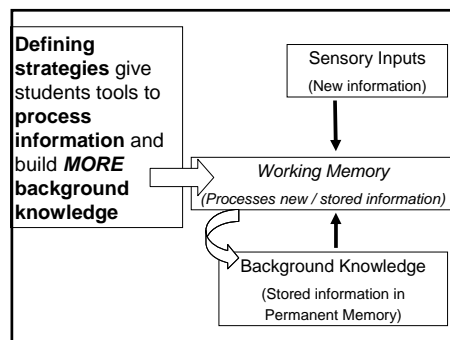
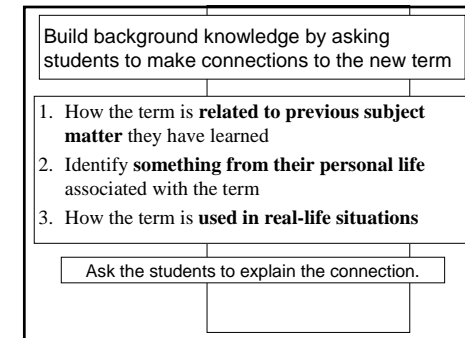
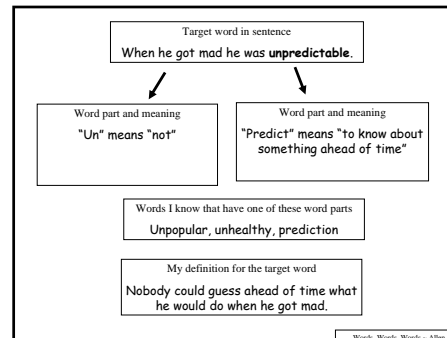
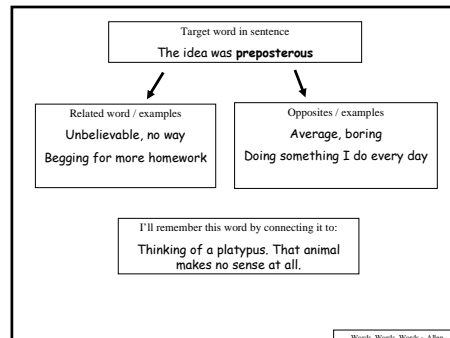
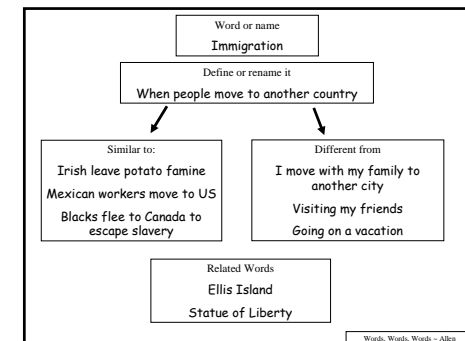
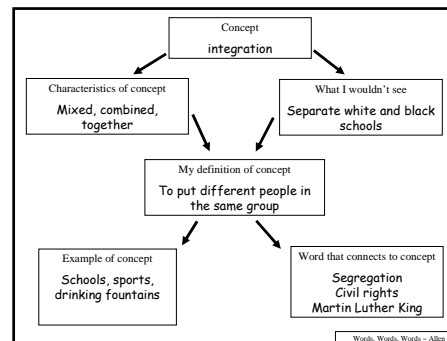
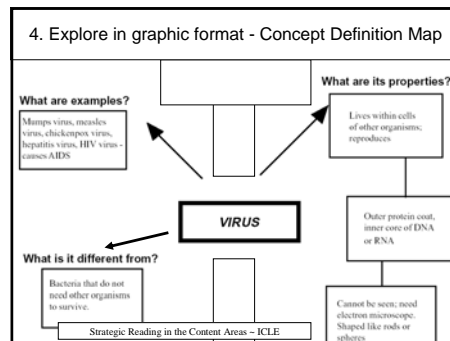
Same terms with organizational framework	Basic terms	Figures and polygons
Space figures / basic solids Cube Cylinder Sphere Cone Pyramid Tetrahedron Prism	Lines Points Intersection Rays Endpoints Parallel lines	Polygon Triangle Rectangle Square Parallelogram Rhombus Trapezoid Pentagon
Can be a student - or teacher-directed activity		

3. Students master new terms when they can more deeply process them			
Define in your own words		Characteristics	
Frayer Model			
Example from life		Non-example from life	

Frayer Model from: Teaching Reading in the Content Areas ~ McRel

Increase rigor and relevance with student generated real-world connections			
"Way of life of a group of people"		"Their holidays and the things they make"	
"Culture"			
"What my friends and I wear. What music we listen to"		"Color of my hair, the weather"	

Rigor, Relevance and Reading for Struggling to Average Readers




Rigor, Relevance and Reading for Struggling to Average Readers

Reflecting on summarizing skills

- What summarizing **skills** do I teach?
- What **strategies** do I use?
- What **strategies** are working?

Student who use summarizing activities build background knowledge

- Student can “**talk**” their way into learning
- Retelling to **constructing their own meaning**
- Use **textual evidence** to support summaries
- Make and check **predictions**
- Using **graphic organizers**

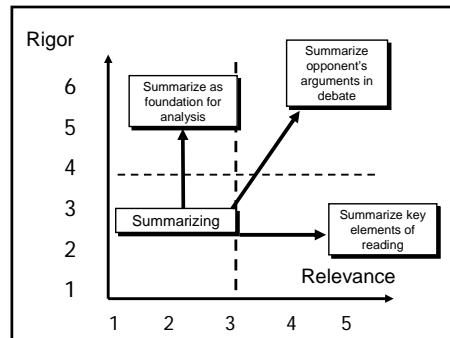


Research shows student use of summarizing skills results in a 34-percentile gain in student performance.
Classroom Instruction that Works, ASCD, 2001


Case 1:
Teacher lectures on the essential characteristics of mammals

Case 2:
Teacher lectures and then students do a summarizing exercise on the essential characteristics of mammals

+ 34% gain in content mastery




Build Summarizing Techniques with Visuals



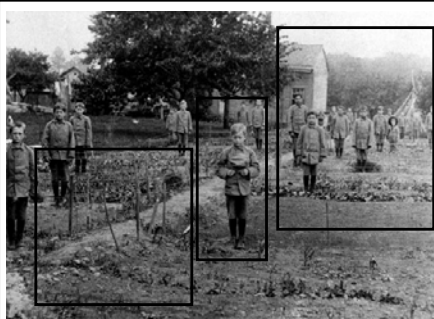
Specify your student outcome

*Given an image students will be able to demonstrate an ability to **interpret** a visual document by clearly **identifying** the **people**, **objects**, and **activities** in the image.*

Start with Observation: Inventory the Image



- Study the image for 2 minutes. Form an overall impression of the image and then examine individual items.
- Next, divide the image into sections and study each to see what new details become visible.
- List people, objects, and activities in the image.



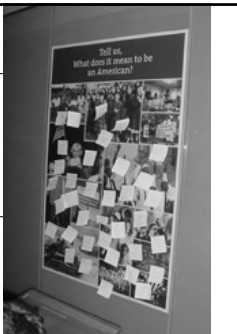
Increase rigor with inference - Based on what you have observed, list three things you might infer from this image.



What questions does this image raise?
Where could you find answers to them?

Rigor, Relevance and Reading for Struggling to Average Readers

Gather and organize student observations with "post-its"



Differentiate the objective for different ability levels

Using the visual document supplied by the teacher

- Identify - **comprehension**
- Classify - **analysis**
- Draw your version - **synthesis**
- Judge based on criteria - **evaluation**

Different levels of Bloom's rigor

Start with basic text summarizing skills – delete, substitute, and keep

- Focus on the **important information**.
- Delete trivial** info that is unnecessary to understanding
- Delete redundant** information
- Use **category terms** for lists (“flowers” for “daisies, tulips and roses”)
- Select a **topic sentence** (or invent one if it is missing)

Classroom Instruction that Works, ASCD

Teach and model *active listening* and *reading* as foundation for summarizing

Getting the **spoken message** right

- “So what your saying is...”
- “So what I’m hearing is ...”

Leads to getting the **written message** right

- “So what the author is saying is ...”
- “Do you agree with the author’s point that ...”

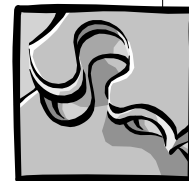
Effective questioners are also careful listeners

- Clarifying** - restate an idea in another way.
“What do you mean, when you say ____?”
- Verifying** - provide evidence or examples
“How do you know ____?”
- Refocusing** - get students “back on track”
“You seem to be talking about (something else), what do you think about (current topic)?”
- Narrowing the focus** to limit the idea talked about.
“Tell us more about that idea.”

Improving Comprehension, Jill Slack, SEDL Letter, June 2005

Build background knowledge with a **Paired Reading**

- Reader reads 1st paragraph to listener
- Listener gives a summary
- Check back to text for accuracy
- Record summary
- Switch roles



Strategic Reading in the Content Areas – ICLE

Modify Paired Reading into: **Peer Reading Coach**

- Select a reading - break into smaller sections
- Teacher develops two guiding question for each section
- Pair students up and have them alternate role of
 - Coach** ~ reads teacher’s questions
 - Summarizer** ~ uses questions to develop summary
- Switch roles with each paragraph to summarize entire reading

Reading for Academic Success – Strong and Silver

Pose open-ended questions to help students build comprehension by developing their own interpretations

- What do you think the story will be about?
- What might you do in a similar situation?
- What does this remind you of in your own life?
- How might this be different if it happened in another time period?
- If you were telling this story, how might you end it?
- What do you think would happen if... ?

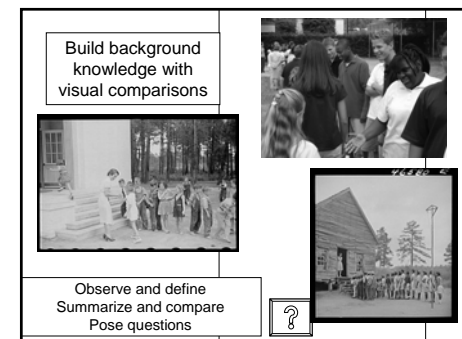
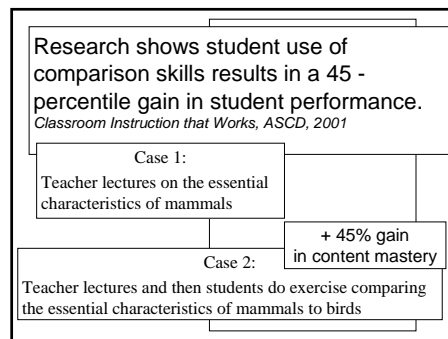
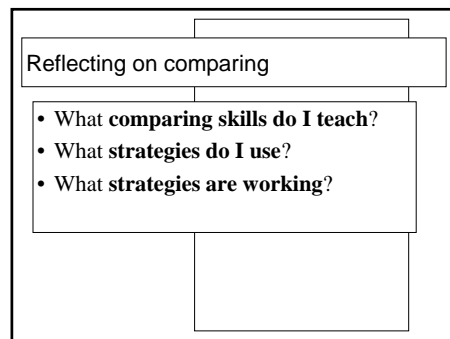
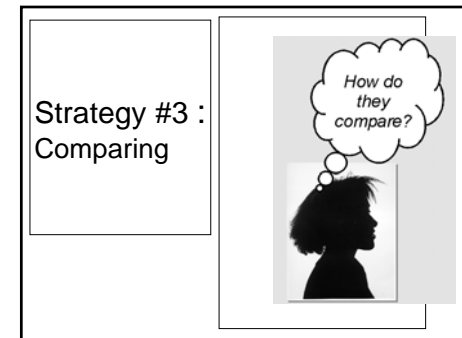
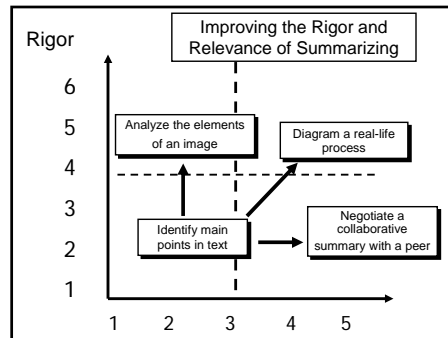
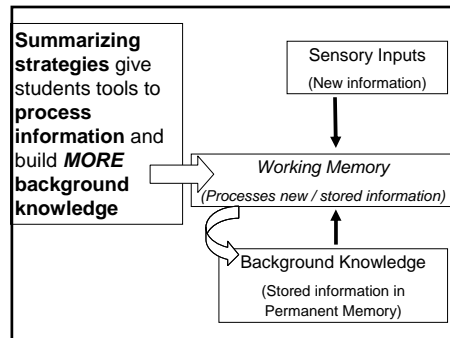
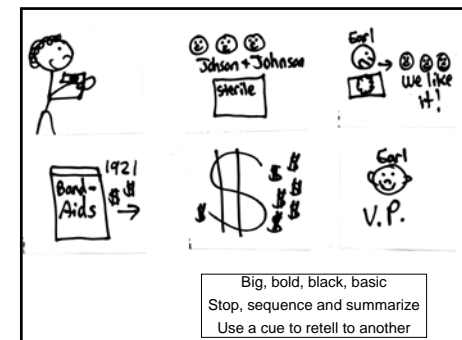
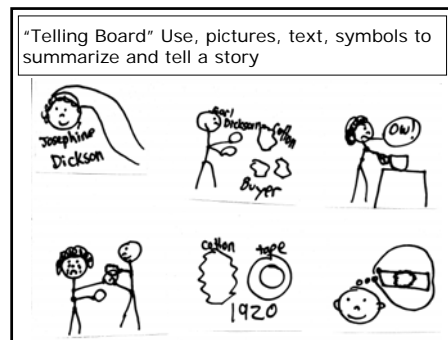
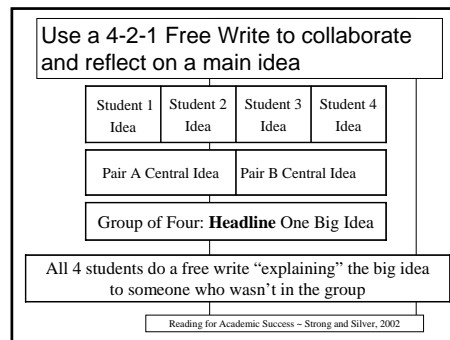
Improving Comprehension, Jill Slack, SEDL Letter, June 2005

Have student groups **negotiate a collaborative summary**

- Reading pairs develop summary
- Meet with additional groups to **negotiate** a collaborative summary
 - My key ideas
 - My partner’s key ideas
 - Our joint key ideas
 - Key ideas we agree on with another group

Reading for Academic Success – Strong and Silver

Rigor, Relevance and Reading for Struggling to Average Readers



Rigor, Relevance and Reading for Struggling to Average Readers

Use listening skills to make a comparison when people talk about the movies that saw

Listen to speaker	What type of film did they see?	Did they like the film?
Speaker 1		
Speaker 2		
Speaker 3		

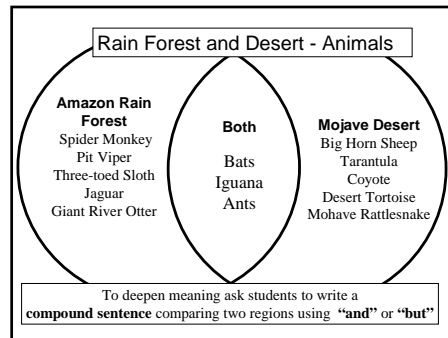
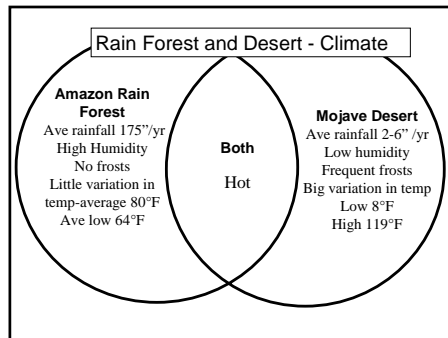
“Yeah, it was sentimental story about a policeman who falls in love with a bank clerk who he meets after a robbery. Predictable stuff - they move in together, split up, get back together. Bit boring, really, to tell you the truth.”

Student's listen to movie reviews

Graphic organizer comparison

Amazon Rain Forest	Mohave Desert
Ave rainfall 175"/yr High Humidity	Ave rainfall 2-6" /yr Low humidity
No frosts	Frequent frosts
Little variation in temp-average 80°F	Big variation in temp
Ave low 64°F	Low 8°F
Hot	High 119°F
Spider Monkey	Bats
Pit Viper	Iguana
Three-toed Sloth	Ants
Jaguar	Big Horn Sheep
Giant River Otter	Tarantula
Bats	Coyote
Iguana	Desert Tortoise
Ants	Mohave Rattlesnake

Classroom Instruction that Works, ASCD, 2001



Reading For Meaning - Students given an article on Relocation of the Cherokee Nation

Teacher produced statement:
For the Cherokees, moving west of the Mississippi is better than being oppressed in Georgia

<input type="checkbox"/> Support	<input type="checkbox"/> Disagree
----------------------------------	-----------------------------------

Reading for Academic Success - Strong and Silver

Reading For Meaning - Students given an article on Relocation of the Cherokee Nation

Teacher produced statement:
For the Cherokees, moving west of the Mississippi is better than being oppressed in Georgia


<input type="checkbox"/> Support	<input checked="" type="checkbox"/> Disagree “We wish to remain in the land of our fathers.” If we are forced to leave our country, we see nothing but ruin before us”
----------------------------------	--

Comparing what was stated

Ask students to develop their own models to do comparisons


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

Let them make it relevant
What's more important in sports – strength or agility?

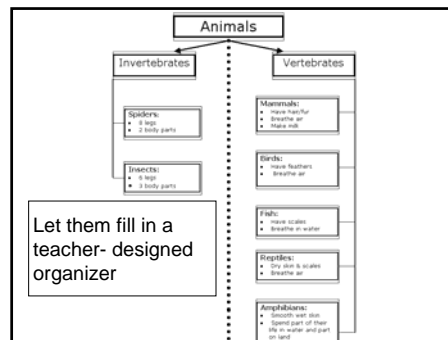


Rigor, Relevance and Reading for Struggling to Average Readers

Move from Comparing to Classifying




- Comparing** is the process of **identifying similarities and differences** between or among things or ideas (technically contrasting is looking for differences.)
- Classifying** is the process of **grouping things** that are **alike into categories** on the basis of the **characteristics**



Let them design their own "system"

Look at leaves ... how would you classify them?



Veins are parallel.

Stem is hollow – *Grass*

Stem is not hollow

Stem is round – *Rush*

Stem has edges – *Sedge*

Veins are not parallel.

Leaves are compound)


Three leaflets – *Poison Ivy*

Four or more leaflets

Leaves are not compound



"Post it" classification strategy. Give students a reading. They each write key info from reading on sticky notes. They then work in groups to *silently* classify the info.




Increase rigor of classification – add evaluation and decision-making

Decision	Criteria for evaluation		
	Criteria 1	Criteria 2	Criteria 3
Option 1			
Option 2			
Option 3			

Choose a career	Criteria for evaluating careers		
	Pay	Hours	Promotion
Construction			
Retail			
Health service	What criteria will you use? Are they of equal importance? How can your evaluations be quantified? How can you use your analysis to justify a decision?		


Measure classification: *What types of stories are found in magazines?*

- What categories?
- Frequency of categories?
- Length of story?
- Illustrations?
- Cover story?

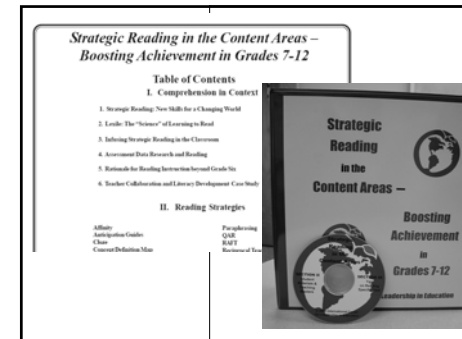
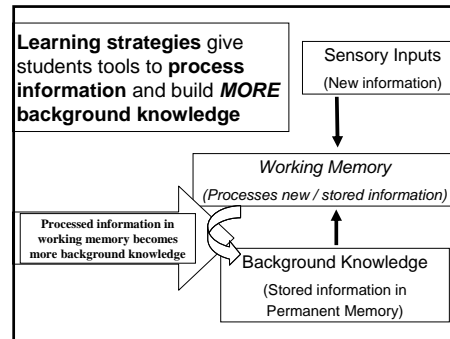
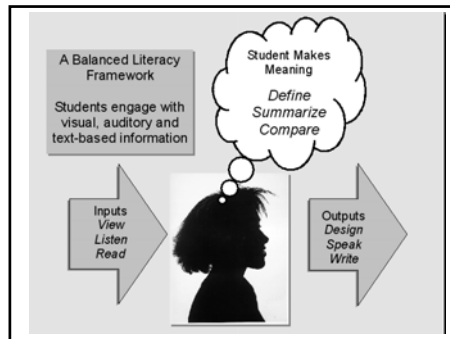


Teach students to observe

- What do you see – what do you call it?
~ **vocabulary**
- What are the important details?
~ **Summarizing**
- What patterns do you see?
~ **Comparison**

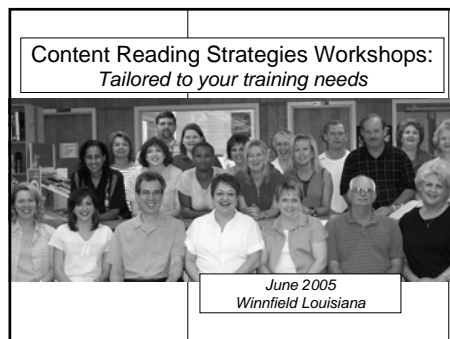
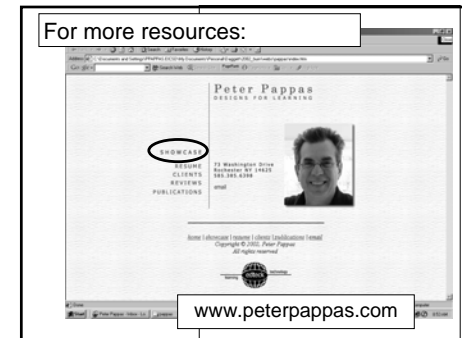


Rigor, Relevance and Reading for Struggling to Average Readers



Workshop References	
Strategic Reading in the Content Areas ~ LaRocco, Sessoms	ICLE 2003
Summarization in Any Subject ~ Rick Wormeli	ASCD 2005
Words, Words, Words ~ Janet Allen	Stenhouse 1999
Classroom Instruction that Works ~ Marzano, Pickering Pollock,	ASCD 2001
Reading for Academic Success ~ Strong and Silver	Corwin Press 2002

Critical Strategies for Academic Thinking and Writing ~ Mike Rose, Malcolm Kiniry	Bedford 1998
Do I Really Have to Teach Reading? ~ Cris Tovani	Stenhouse 2004
Teaching Reading Strategies in Social Studies, Science and Math ~ Laura Robb	Scholastic 2003
Teaching Reading in the Content Areas ~ Jane Doty	McRel 2003
Building Background Knowledge ~ Bob Marzano	ASCD 2004



A one-hour introductory workshop by Peter Pappas
www.peterpappas.com