Dr. Jane E. Pollock

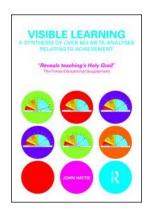
Elementary Session 2 Sept. 23, 2011 Oct. 17, 2011

Goals:

- ✓ Student Learning
 - Maximize Feedback
- ✓ Pedagogical Automaticity
 - o GANAG- with high yield strategies
 - o GANAG- as a procedure
 - Declarative/Procedural Knowledge
- ✓ Communication

Great Resource:

Visible Learning: A Synthesis of Over 800 Meta-Analyses Relating to Achievement John A. C. Hattie 2009



GANAG with high yield strategies EVERY DAY, EVERY LESSON

		*CITW chapter
G	set a goal	8, 4
Α	access prior knowledge	6,7
N	new information	3, 5, 11
	(declarative or procedural)	
Α	apply thinking skill/practice	2,9,10
G	generalize the goal, review,	8,4
	grade	

^{*}Classroom Instruction That Works Marzano, Pickering, Pollock (2001)

Q. What could you do to help you live better and 7-8 years longer?



A. Floss regularly



In order to floss regularly, you must change your "automaticity"

Choosing to floss regularly is an example of **Positive Deviance**:

- ✓ **Science:** You are sick less often and you are removing the plaque that could lead to heart disease and stroke
- ✓ Invisible in plain sight: Flossers are and have been on the shelves at stores
- ✓ **Flip:** Using them regularly brings health benefits

Example GANAG lessons on the Rogers Webpage:

 $\frac{\text{http://curriculum.rogersschools.net/modules/groups/group pages.phtml?gid=1351594\&nid=192414\&s}{essionid=6aa9f1fe2a0cd76bfc4caab13204ce0e}$

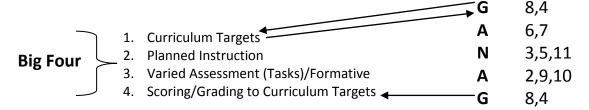
OR

Go to Curriculum

Click on Supporting High-Yield Strategies, GANAG and Technology

Click on GANAG Overview

Scroll down to K12- GANAG Lesson Examples



DECLARATIVE and PROCEDURAL KNOWLEDGE

"If you can name the parts of a bicycle, you have declarative knowledge or knowledge you can declare. If you can ride the bicycle, you have procedural knowledge, also known as habitual knowledge."

One Principal at a Time, Pollock and Ford (2009) Chapter 4 page 83





DECLARATIVE KNOWLEDGE

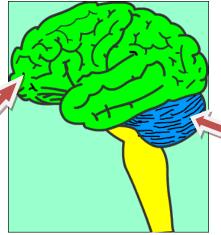
One Principal at a Time, Pollock and Ford (2009) Chapter 4

Declarative knowledge is EASY to learn and EASY to forget

Processed in the Cerebrum

"When understands or knows prefaces a benchmark for a lesson, that benchmark is immediately recognizable as declarative knowledge." pg. 85

Declarative knowledge = apply a thinking skill



PROCEDURAL KNOWLEDGE

One Principal at a Time, Pollock and Ford (2009) Chapter 4

Procedural knowledge is HARD to learn but HARD to forget

Processed in the Cerebellum

Approx. 80% of K-2 instruction is procedural knowledge

Procedural knowledge= practice

Declarative and Procedural High-Yield Strategies

Classroom Instruction That Works Marzano, Pickering, Pollock (2001)

- 2- Identifying similarities and differences- declarative- thinking skill
- 3- Summarizing and note taking- **procedural**
- 5- Homework and practice- procedural
- 9- Generating and testing hypotheses- **declarative** thinking skill
- 10- Questions, cues, and advance organizers- declarative- thinking skill

Read chapter 11 to learn more about declarative and procedural knowledge