

How teaching naked opened Pandora's Box and led back to managing course content

Donald J. Orth



September 3, 2009

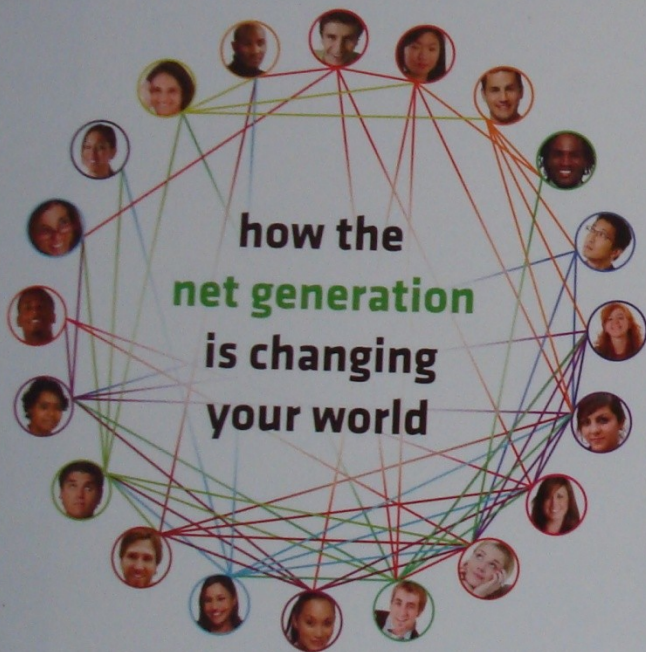
American Fisheries Society Annual Meeting,
Nashville, Tennessee

Our Common Concerns



"Demonstrates the world-changing power of the **Net Generation**.
If you want to understand their impact, read this book."
—Eric Schmidt, Chairman and CEO, Google

grown up digital



DON TAPSCOTT


bestselling author of **growing up digital** and **wikinomics**

"An urgent and pragmatic book on the very dark topic of the virtual end of reading among the young."
—Harold Bloom

"Delivers this bad news in surprisingly brisk and engaging fashion, blowing holes
in a lot of conventional educational wisdom."
—Charles McGrath, *The New York Times*

NATIONAL
BESTSELLER

THE DUMBEST GENERATION



How the Digital Age Stupefies Young Americans
and Jeopardizes Our Future*

***OR, DON'T TRUST ANYONE
UNDER 30
MARK BAUERLEIN**

INCLUDES A NEW PREFACE BY THE AUTHOR

Managing Course Content

The garage approach ----->



THE NAKED TEACHER

How To
Survive
Your
First Five
Years in
Teaching



LOUISA LEAMAN

LEARNER-CENTERED TEACHING

PALMER THE COURAGE TO TEACH

Richardson BLOGS, WIKIS, PODCASTS, and Other Powerful Web Tools for Classrooms

STEVENS / LEVI INTRODUCTION TO RUBRICS

presentationzen

CREATING SIGNIFICANT LEARNING EXPERIENCES

INSIDE



OSSEY-CLASS



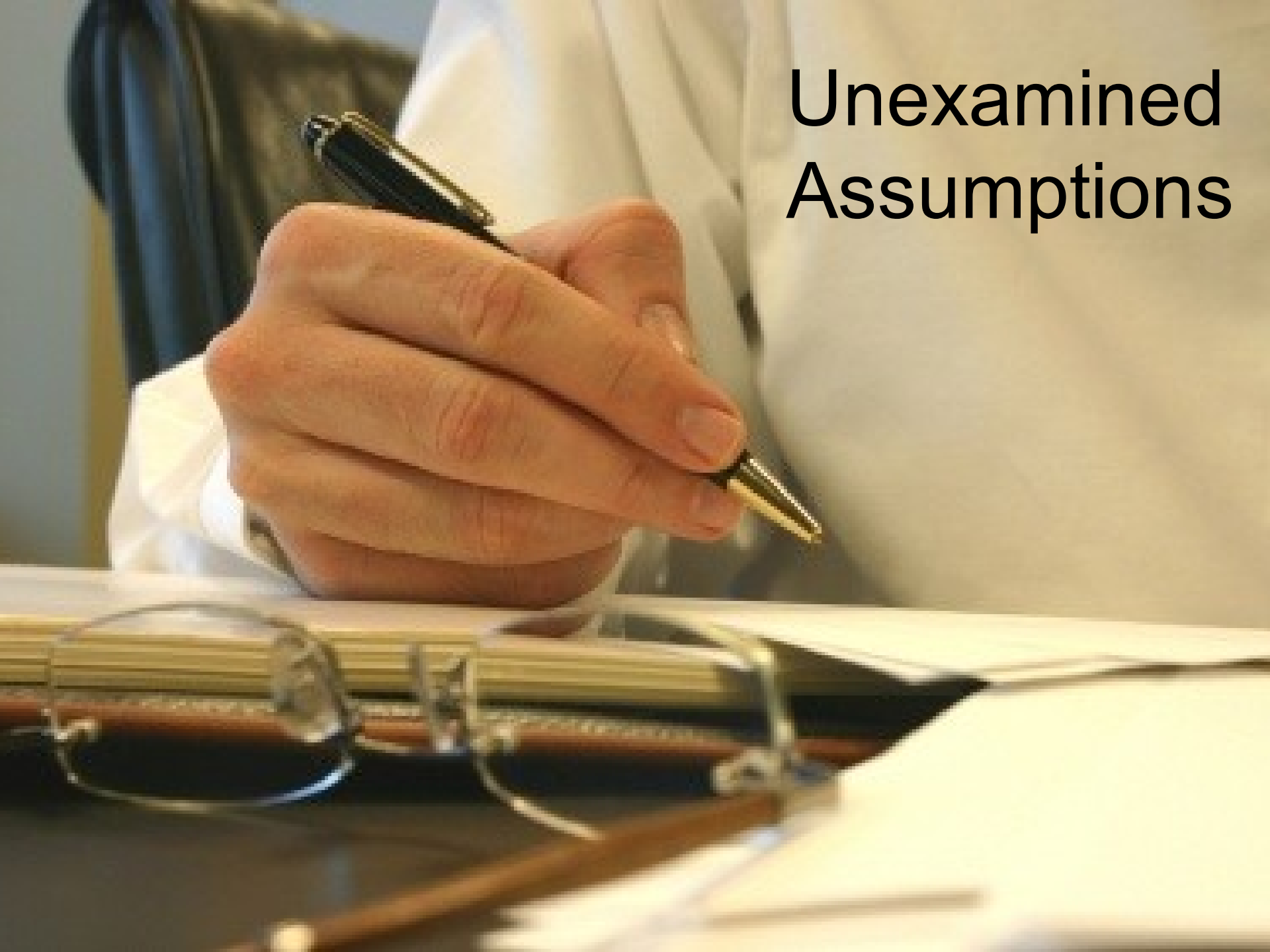
Words

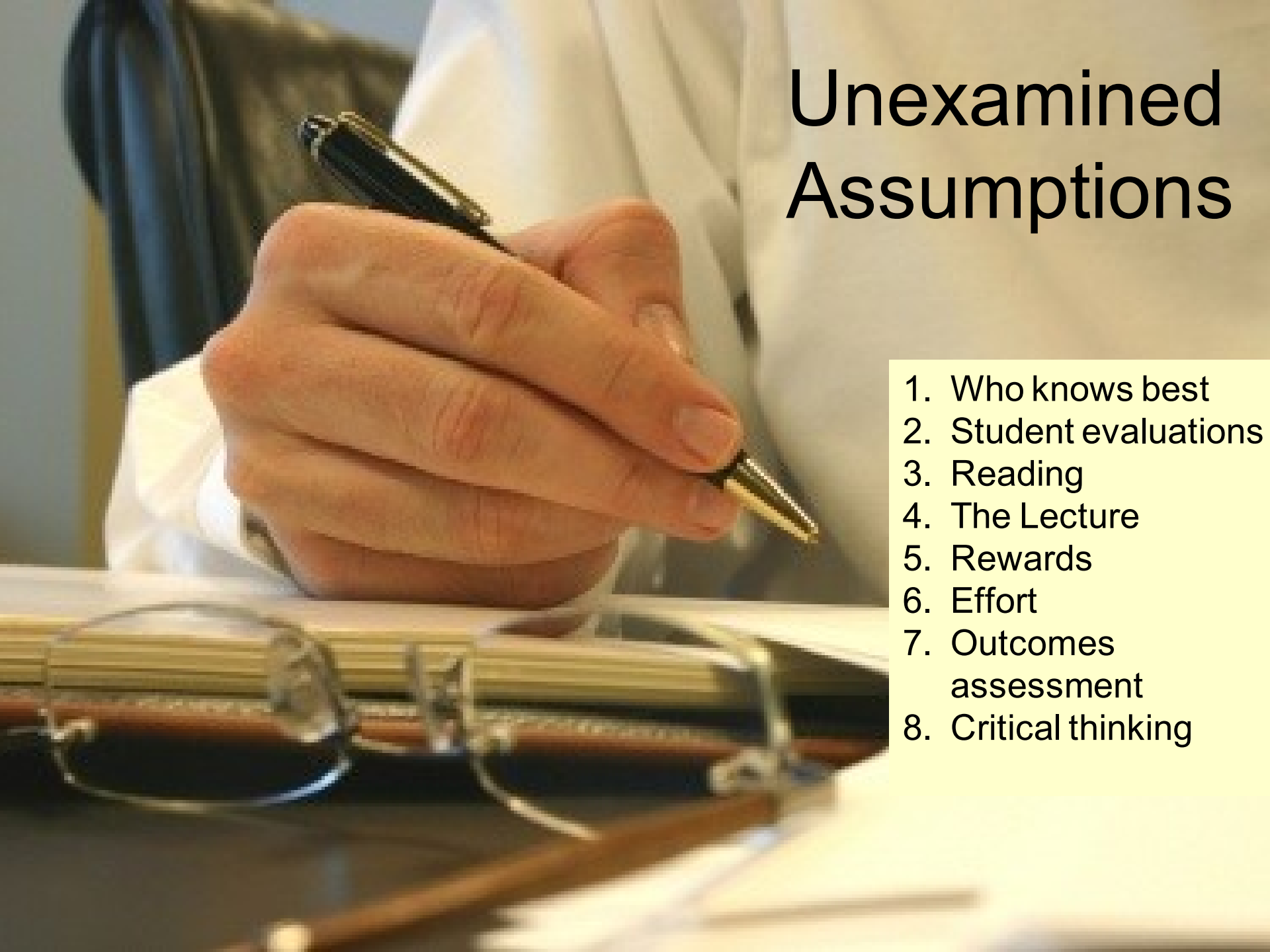
Tone

**Body
Language**

Albert Mehrabian, PhD

Unexamined Assumptions



A close-up photograph of a person's hand holding a black pen, poised to write on a document. The person is wearing a white dress shirt and a dark tie. In the foreground, a pair of glasses with a wooden frame and a pen are resting on a desk. The background is slightly blurred, showing a light-colored wall.

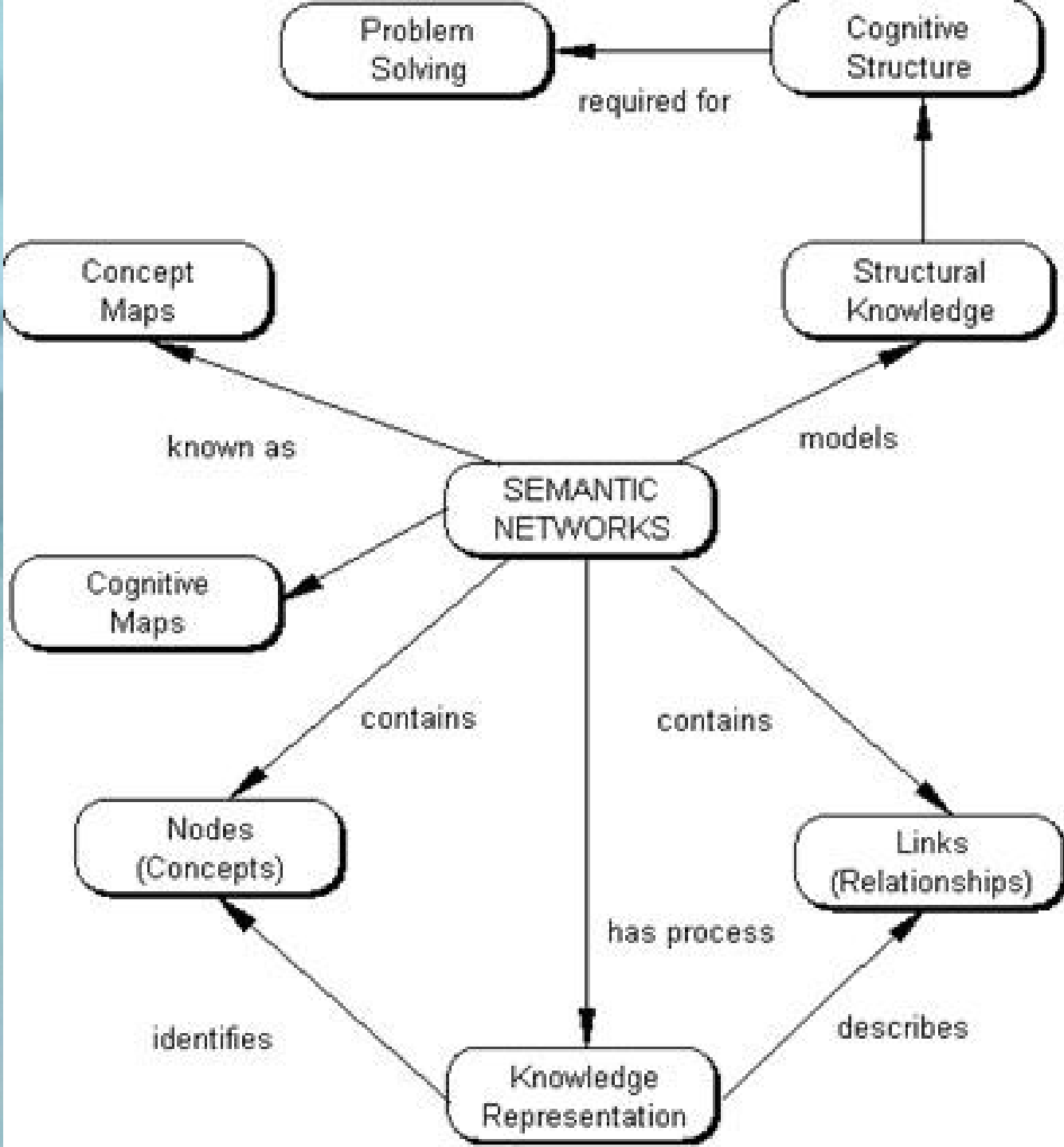
Unexamined Assumptions

1. Who knows best
2. Student evaluations
3. Reading
4. The Lecture
5. Rewards
6. Effort
7. Outcomes assessment
8. Critical thinking

What is Memory?

- **sensory** milliseconds
- **working** 7 ± 2 chunks for few minutes, and
- **long-term** $\frac{1}{2}$ hour up to lifetime





Fiesta.com
How does human
memory work?

Focus Question

Constructing Knowledge

World view

Value claims

Philosophy

Knowledge claims

Theory

Transformations

Principles

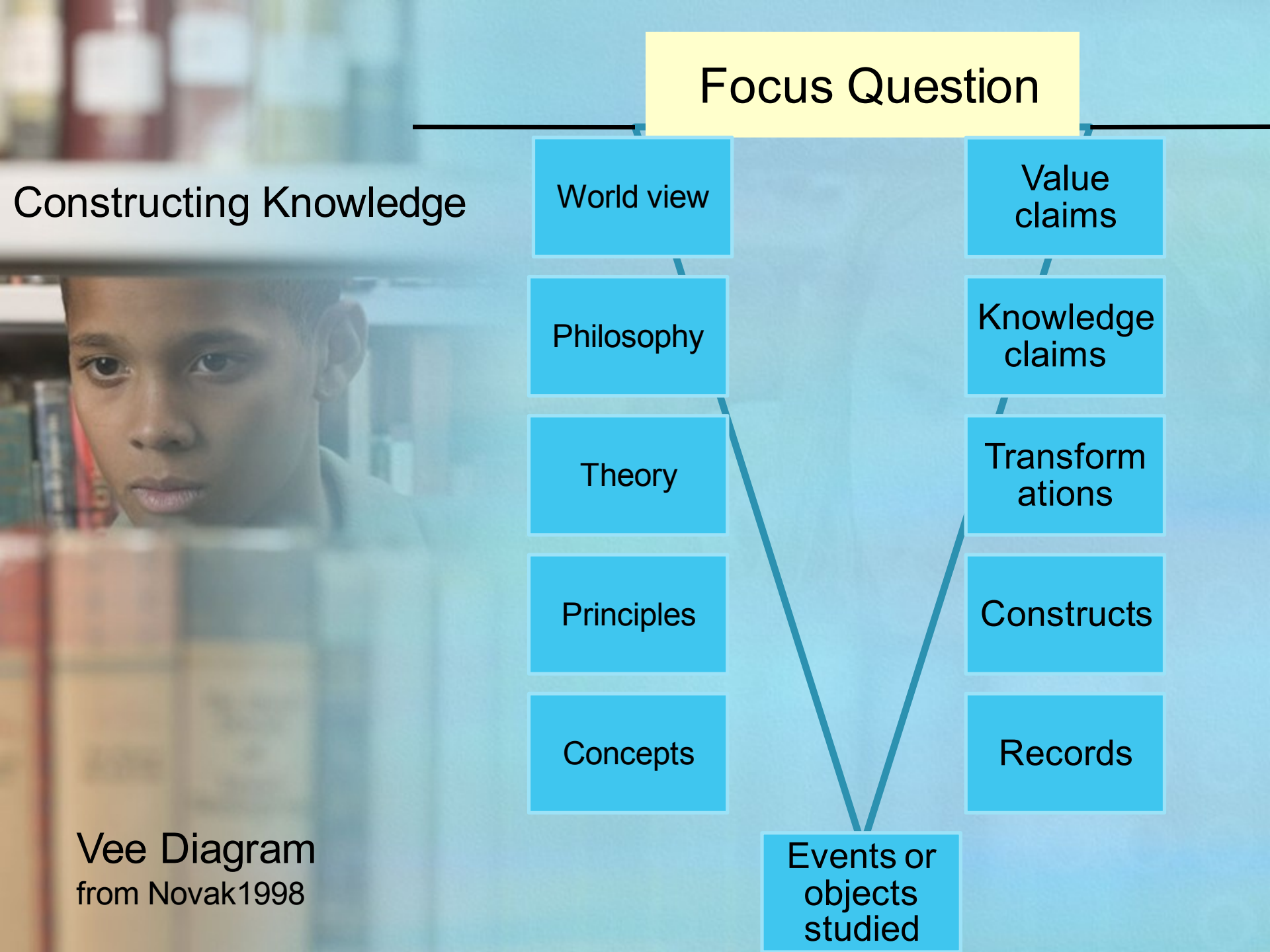
Constructs

Concepts

Records

Events or objects studied

Veel Diagram
from Novak 1998



Reflection

The key feature in learning:
application or
problem solving



© Johnny Jensen



© Johnny Jensen



Web 2.0 Tools

A young boy with dark skin and short hair is looking intently at a book in a library. The background shows shelves filled with books, creating a blurred effect behind him.

Google
Docs

I Tunes U,
podcasts

Second
Life

Slideshare

Digital
Libraries

Wikis

Sloodle

SimTeach

Bubbl.us

Search the Library

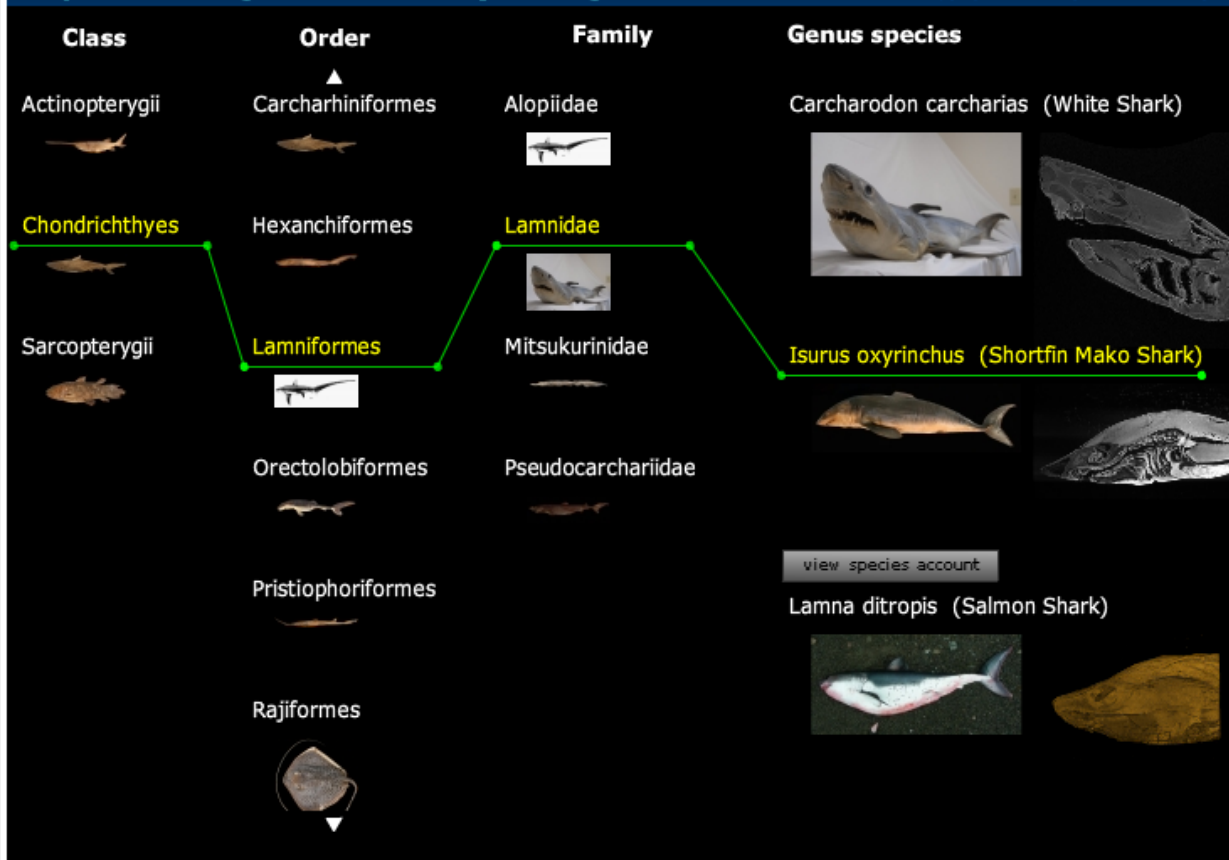
Enter all or part of the **scientific** or **common name** or **keywords** for a species.

[Cladogram](#)

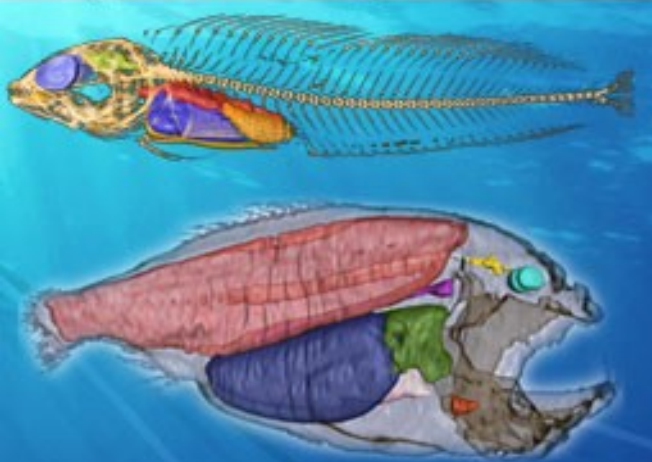
[View All Species](#)

Explore the Digital Fish Library Cladogram

Copyright 2008 Digital Fish Library

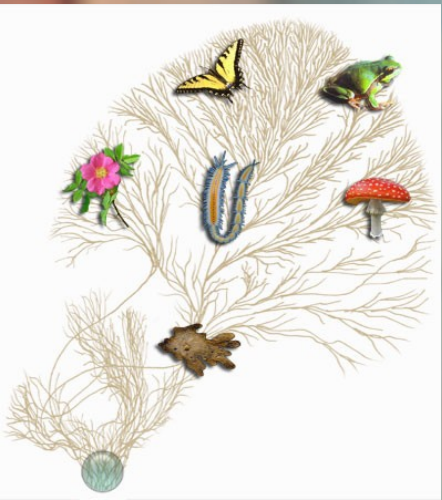
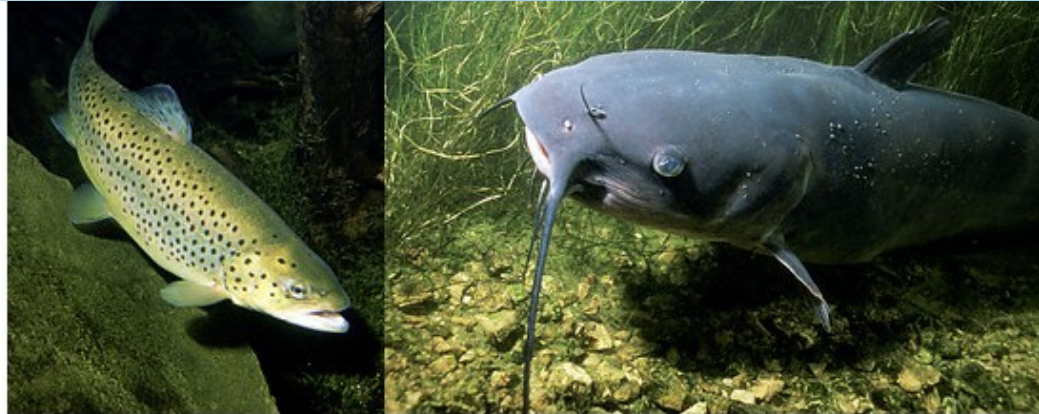


DFL
Digital Fish Library

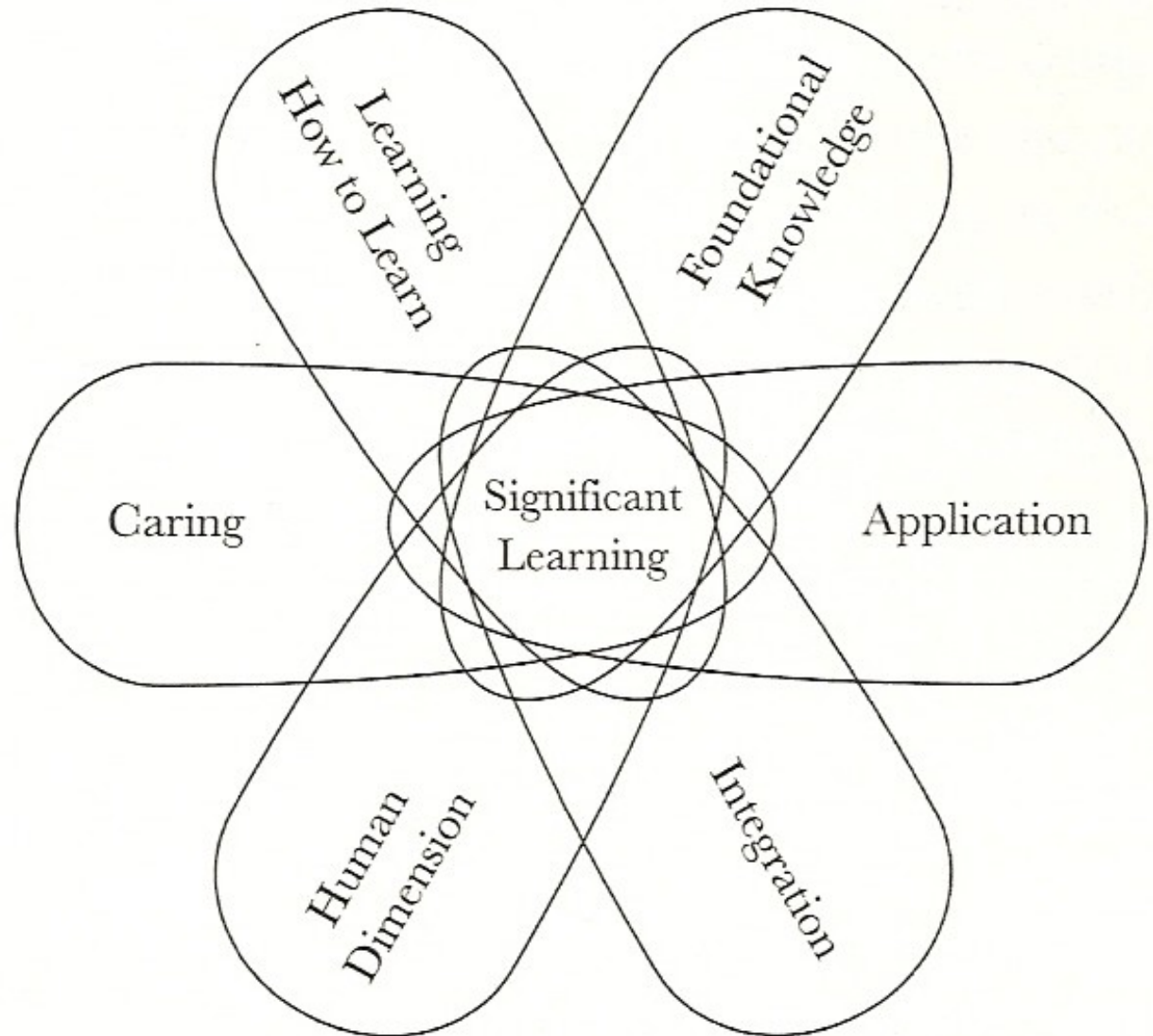


Tree of Life Project

Tolweb.org

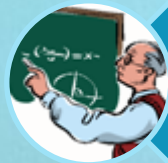


Learning Goals



From L. D. Fink, 2003 *Creating Significant Learning Experiences*.

Content Management



Foundational
Knowledge

Topics A

B, C,

D, E...

Content Management

Learning-
Centered
Teaching
Promotes
Multiple
Dimensions
of Learning



How to Learn



Caring



Human Dimensions



Integration



Application



Foundational
Knowledge

Topics A

B, C,

D, E...



THE
MATRIX

Curriculum-based matrix

	Introductory	Intermediate	Advanced	Experiential
Core Communication & Quantitative Skills				
Critical Thinking				
Integration & Application of Knowledge				
Intellectual Depth, Breadth, & Adaptiveness				
Understanding Society & Culture				
Values & Ethics				

Complete

Pending

Ready

Locked

Learning Goals

Content

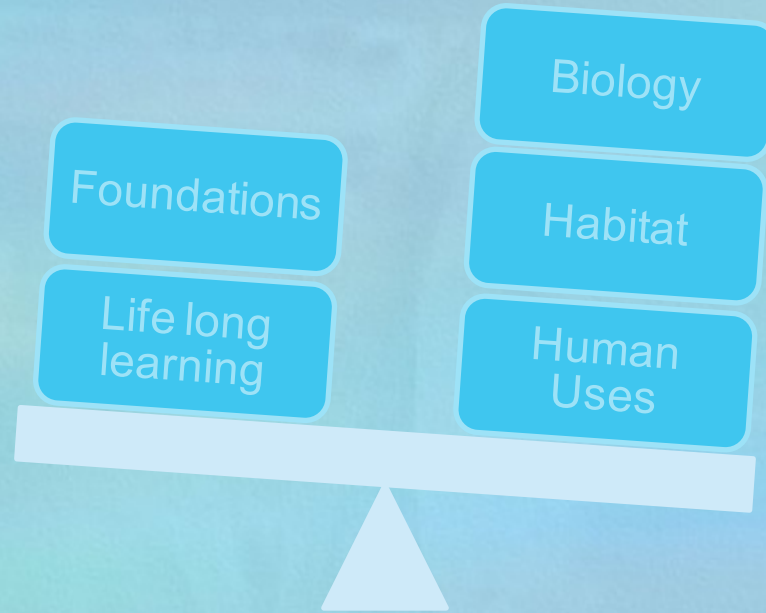
Foundations

Life long learning

Biology

Habitat

Human Uses



Click on a cell to view/edit

Ichthyology Assignment Matrix

Anatomy Lesson Plan

Formal Essay

Fascinating Fish

Reflections on Learning Fish Identification

Click on cell to submit work



Legend

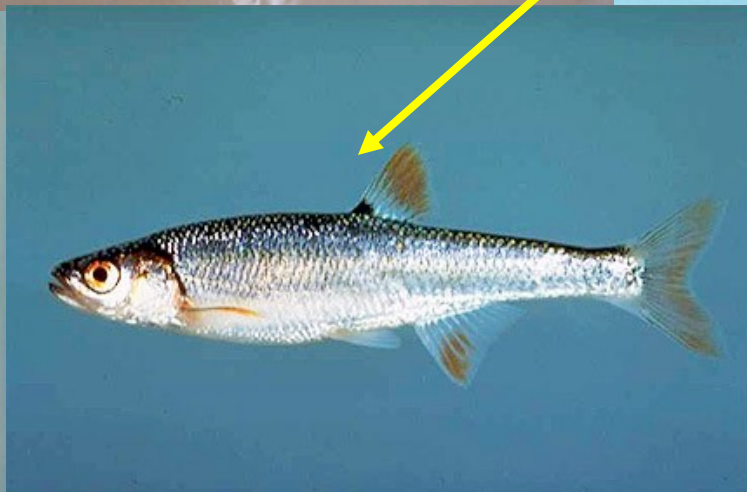


Lythrurus ardens “rosefin shiner”



Identification

- Terminal mouth
- Long, slender
- dorsal fin dark at base
- Dark, usually triangular spot at dorsal fin origin


















Excerpt from
Kirk Dunn 2007

Your learning goals for this assignment are:

Develop a curiosity about fishes and an enthusiasm for life-long learning
Care about others who use fishes in various ways for various purposes
Develop confidence in your ability to learn novel fishes and teach others about fish

Click on a cell to view/edit

Ichthyology Assignment Matrix	Anatomy Lesson Plan	Formal Essay	Fascinating Fish	Reflections on Learning Fish Identification
Click on cell to submit work	  	    	  	   

Legend

-  Ready
-  Completed
-  Pending
-  Locked

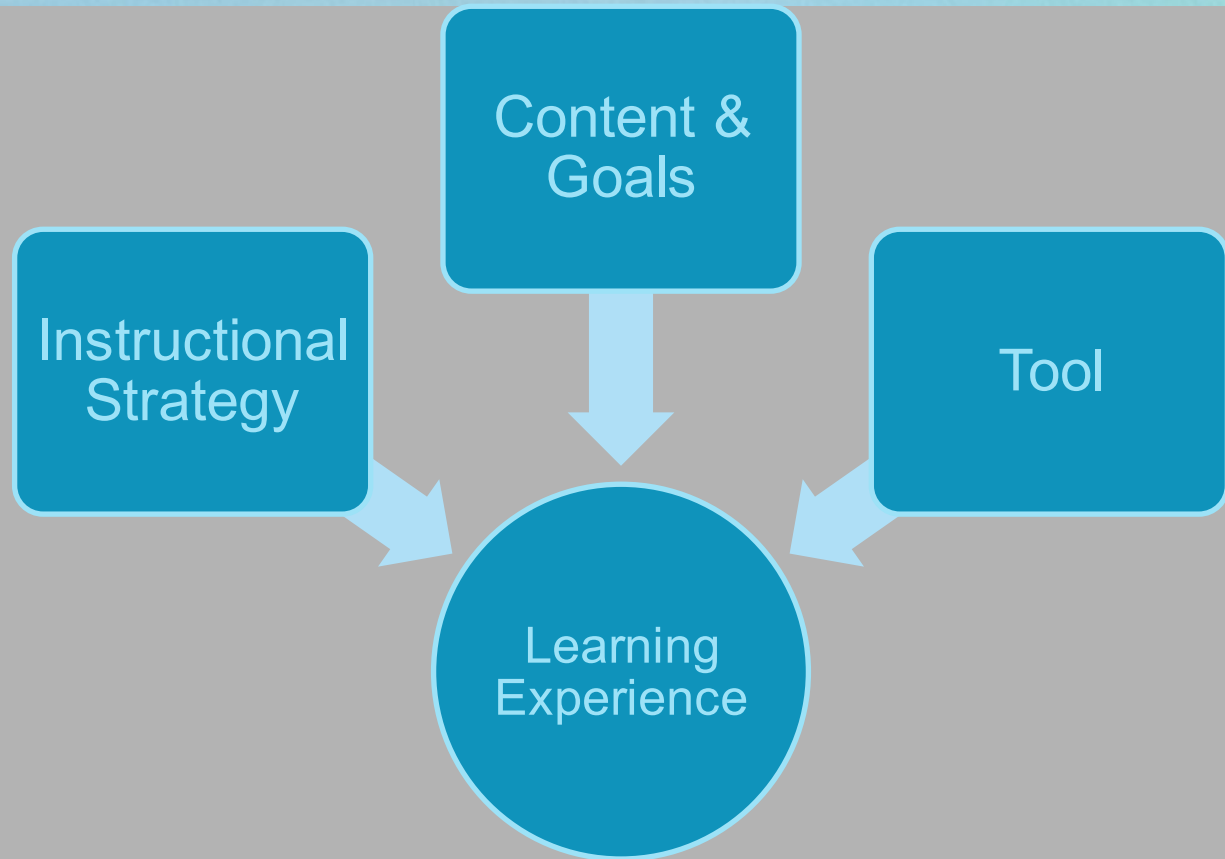
Characteristics of the "A essay"



Obstacles to Change



What's a Thoughtful Instructor to Do?



At the bottom of
Pandora's Box lies
HOPE



'Stories of the Gods and Heroes' by Sally Benson, 1940, Dial Press

Best Practices

