

Think like your professor:

Thinking & learning levels




Level of thinking

- Knowledge and ability grows from basic to advanced level
- Always need and use the basics, but move beyond them as you become more skilled
- It's the same with tests and assignments in college.

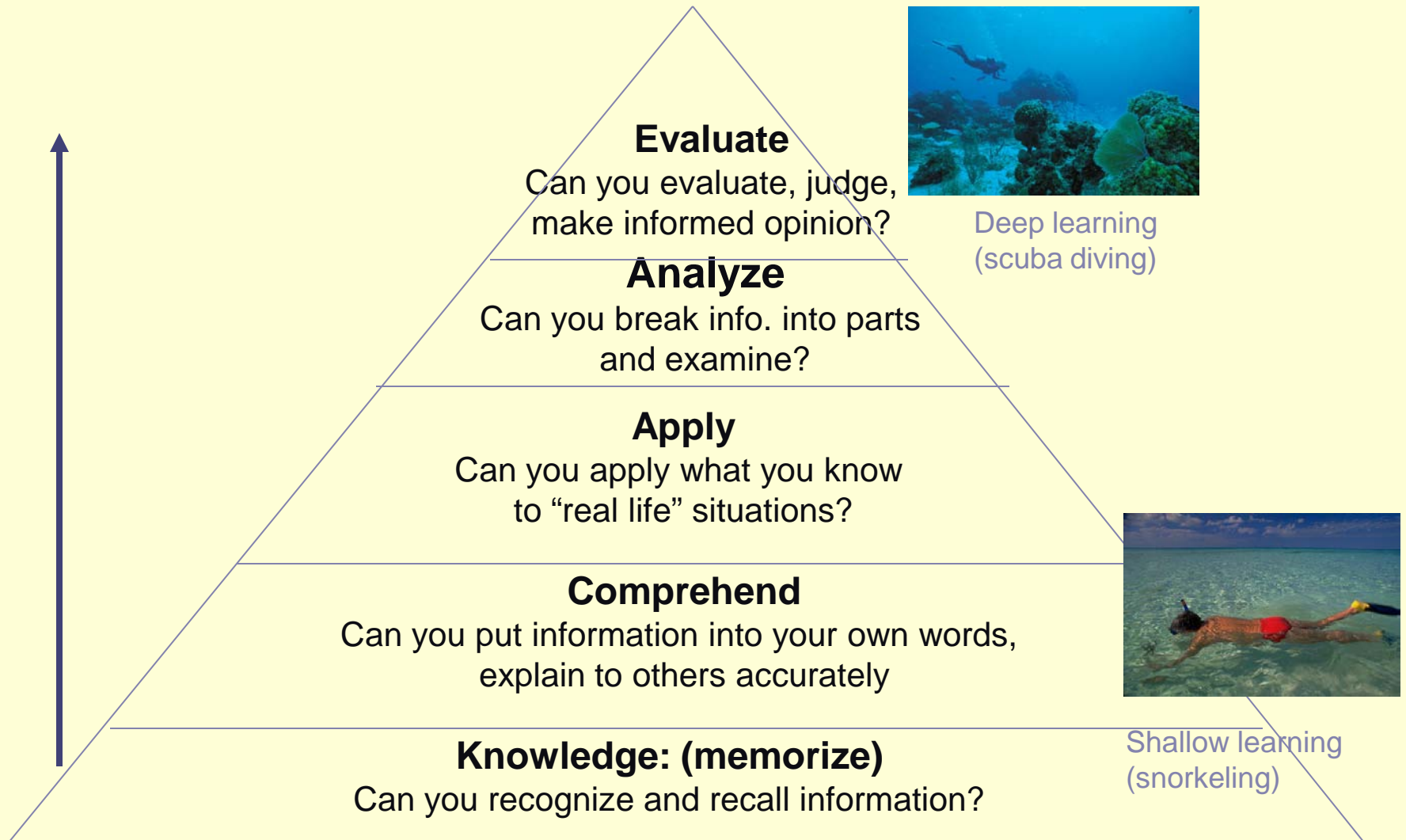




Thinking & learning levels

- Your professor teaches the basic facts so you learn the subject.
 - She also teaches the concepts and theories that are underneath the facts.
 - Professors want you to know the *Whats* as well as the *Whys? Hows? What ifs?*
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How do we learn: Beginner to Expert



Test questions beginner to expert


*Evaluate the effect of
No Child Left
Behind policies on
special education in
Utah.*

*Considering the predator/prey process,
determine how to re-populate the sage
grouse in the Uintah Basin.*

*Using your knowledge of the electoral college,
explain the events of the 2008 presidential election.*


*Describe the different climates and the characteristics of
each.*


List the steps of meiosis.



Beginner Learner: **Knowledge**

Recall or recognize facts and terms

- **Name**
 - **List**
 - **Define**
 - **Choose**
 - **Label**
- 



In what digestive organ is the pH of digestive juices most acidic?

NFS 1020






advanced beginner learner:

Comprehension

Demonstrate you understand facts, terms, concepts.

You don't rely on professor's words alone.

- **Describe**
 - **Explain**
 - **Discuss**
 - **Outline**
- 



A man with normal vision and thinning hair marries a woman with normal vision and full hair. They have a son with color blindness and he goes bald at 18?
The son should blame his misfortunes on:

- a. Mother for vision and both parent for hair.
- b. Mother for vision and father for hair.
- c. Father for vision and mother for hair.
- d. Father for giving the genes for vision and hair.
- e. Mother for giving the genes for vision and hair.

BIOL 1010







Intermediate learner:

Application

Put knowledge to use: show you can use what you know in different situations than the ones professor told you.

- **Give example**
 - **Illustrate**
 - **Solve**
 - **Demonstrate**
 - **Show**
- 




Using principles of operant conditioning, describe how you would train your dog to bring you her leash.




Advanced learner:

Analysis

Take complex information and describe its various parts. Show deep understanding.

- Analyze
 - Compare/contrast
 - Pro/con
 - Diagram
 - Relate
 - Examine
- 





List four methods a parent might use to soothe a crying baby after he/she has tried to feed the baby or change it's diaper. Give a short explanation of the advantages and disadvantages of each method.



Expert learner: **Evaluate**

**Make INFORMED judgments, develop
INFORMED opinions; evaluate worth or relevance**


- **Evaluate**
 - **Judge**
 - **Defend**
 - **Assess effects**
 - **Weigh (pro/con)**
 - **Select**
- 



Do you believe that language development is innate or learned? Provide at least three statements to support your belief/theory.

ComD





More examples of test questions at different thinking levels


● **ECON 1500**

- Give the definition of supply and demand.
- Using the following information, graph the supply and demand curves.

● **BIOL 1010**

- Define homozygous and heterozygous.
- A white flowered, wrinkled-pea plant is____?

● **SOC 1010**

- What is “aligning action”?
 - When would an aligning action be detrimental?
- 



Applying Bloom's to *Goldilocks and the Three Bears*:

- Knowledge **List** the items used by Goldilocks while she was in the Bears' house.
 - Comprehend **Explain** why Goldilocks liked Baby Bear's porridge the best.
 - Apply If Goldilocks came to your house, **which chair would you pick** for her to use?
 - Analyze **Compare** your ethics with Goldilocks. How are they the same? How are they different?
 - Evaluate Was Goldilocks ethical or unethical in how she used the property of others? **Defend** your position.
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