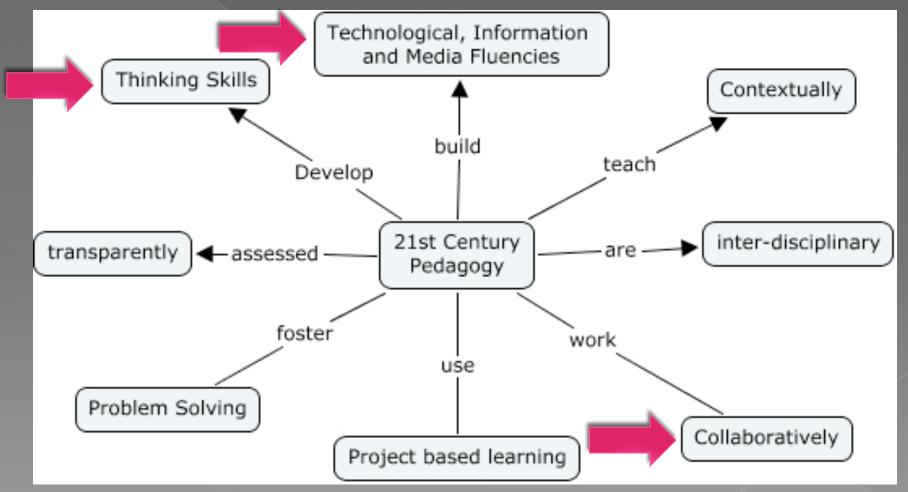
Bloom's Revised Taxonomy and 21st Century Learning

Today you will...

- Learn more about Bloom's Revised
 Taxonomy & how it benefits teachers
 and students
- Discuss ways you can implement a new activity or two into your current lessons plans
- Collaborate with peers

Key Features of 21st Century Pedagogy



Why use Revised Bloom's Taxonomy?

- Important: It aligns with NC Essential Standards and Common Core.
- Objectives (learning goals) set a purpose for learning for both teachers and students.
- Teachers can benefit from using frameworks to organize objectives because...
- Organizing objectives helps to clarify objectives for everyone.
- Having an organized set of objectives helps teachers to:
 - > plan and deliver appropriate instruction
 - > design valid assessment tasks and strategies
 - ensure that instruction and assessment are aligned with the objectives

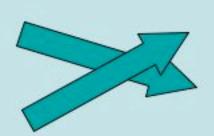
What's different?

- Nouns changed to verbs
- Synthesis domain changed to "Creating"
- Evaluating moved lower on hierarchy
- One-dimensional to two-dimensional
 - Knowledge dimension
 - Cognitive Process dimension
- Emphasis on meta-cognition

Original Domain

New Domain

- Evaluation
- Synthesis
- Analysis
- Application
- Comprehension
- Knowledge



- Creating
- Evaluating



Analyzing



Applying



Understanding



Remembering

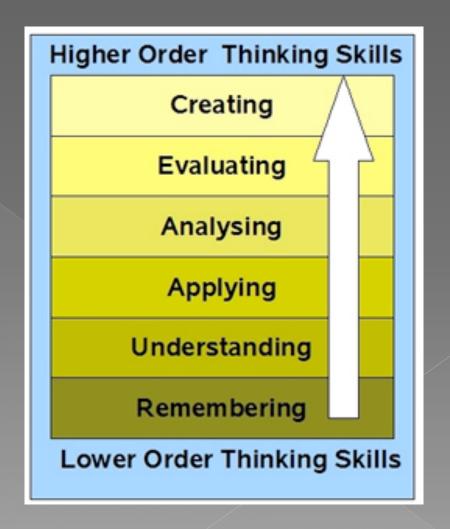
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How's it organized?

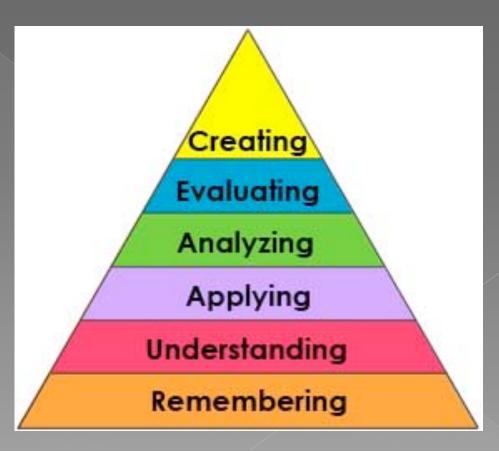
- Categories ordered:
 - Simple to complex
 - Concrete to abstract

Categories can and will overlap



Cognitive Process Dimension

- The cognitive process refers to the verb used in the standard.
- There are six:
 - Remember
 - Understand
 - Apply
 - > Analyze
 - > Evaluate
 - Create



Module Video Clip

- Higher-order thinking skills-
 - Apply
 - Analyze
 - Evaluate
 - Create
- https://center.ncsu.edu/nc/mod/ resource/view.php?id=170001

Example

- Remember: Describe where Goldilocks lived.
- Understand: Summarize what the Goldilocks story was about.
- Apply: Construct a theory as to why Goldilocks went into the house.
- Analyze: Differentiate between how Goldilocks reacted and how you would react in each story event.
- Evaluate: Assess whether or not you think this really happened to Goldilocks.
- Create: Compose a song, skit, poem, or rap to convey the Goldilocks story in a new form.

Knowledge Dimension

A way to categorize the type of knowledge to be learned. For instance, in the standard,

"The student will <u>understand the concept of</u> equality as it applies to solving problems with <u>unknown quantities</u>", the knowledge to be learned underlined.

- Knowledge in the RBT falls into four categories:
 - Factual Knowledge
 - Conceptual Knowledge
 - Procedural Knowledge
 - Meta-Cognitive Knowledge

Knowledge Types

- Factual: terminology, specific details and elements
- Conceptual: classifications & categories, theories & generalizations, theories & models/structures
- Procedural: subject-specific skills, algorithms, techniques, & methods
- Meta-cognitive: strategic knowledge, self knowledge, & knowledge about cognitive tasks

Module Video Clip

- Knowledge Types/Recipe Comparison
- https://center.ncsu.edu/nc/mod/ resource/view.php?id=230951

Teaching Digital Natives

- What are "digital natives"?
 - A person born during or after the general introduction of digital technology
- "Today's students are no longer the people our educational system was

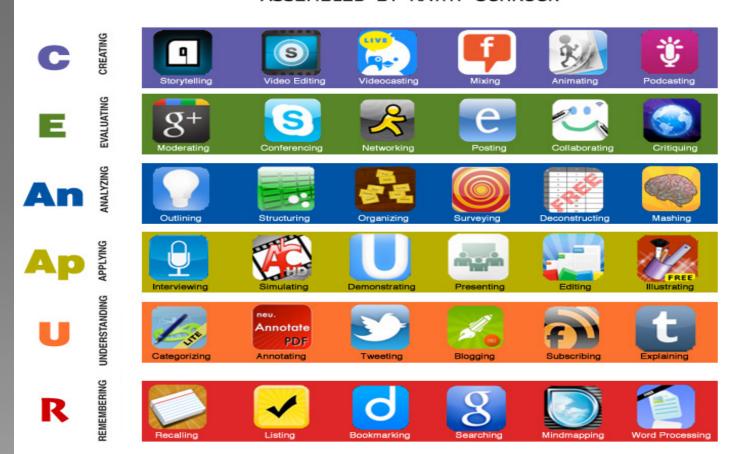
designed to teach."

-Marc Prensky

Students are actually learning differently!

Bloomin' Apps - Kathy Schrock

IPAD APPS TO SUPPORT BLOOM'S REVISED TAXONOMY ASSEMBLED BY KATHY SCHROCK



End of Session 1- Wrap up

- With your grade level members, choose one subject area to focus on.
- Use any of the materials in your handout packet to help you plan a couple of activities that align with/incorporate Bloom's Revised Taxonomy.
- Example in packet

Using the Taxonomy Table in Unit Planning

The Cognitive Process Dimension						
The Knowledge Dimension	1. Remember	2. Understand	3. Apply	4. Analyze	5. Evaluate	6. Create
A. Factual Knowledge						
B. Conceptual Knowledge				X		X
C. Procedural Knowledge						
D. Metacognitive Knowledge						

Figure 1. The placement in the Taxonomy Table of the State of Minnesota's Language Arts Standard for Grade 12.

Taxonomy Table

- Helps teachers decide where and how to improve these areas:
 - curriculum planning
 - delivery of instruction
- Can be used for curriculum alignment and/or to find missed educational opportunities

