

Universal Design for Learning

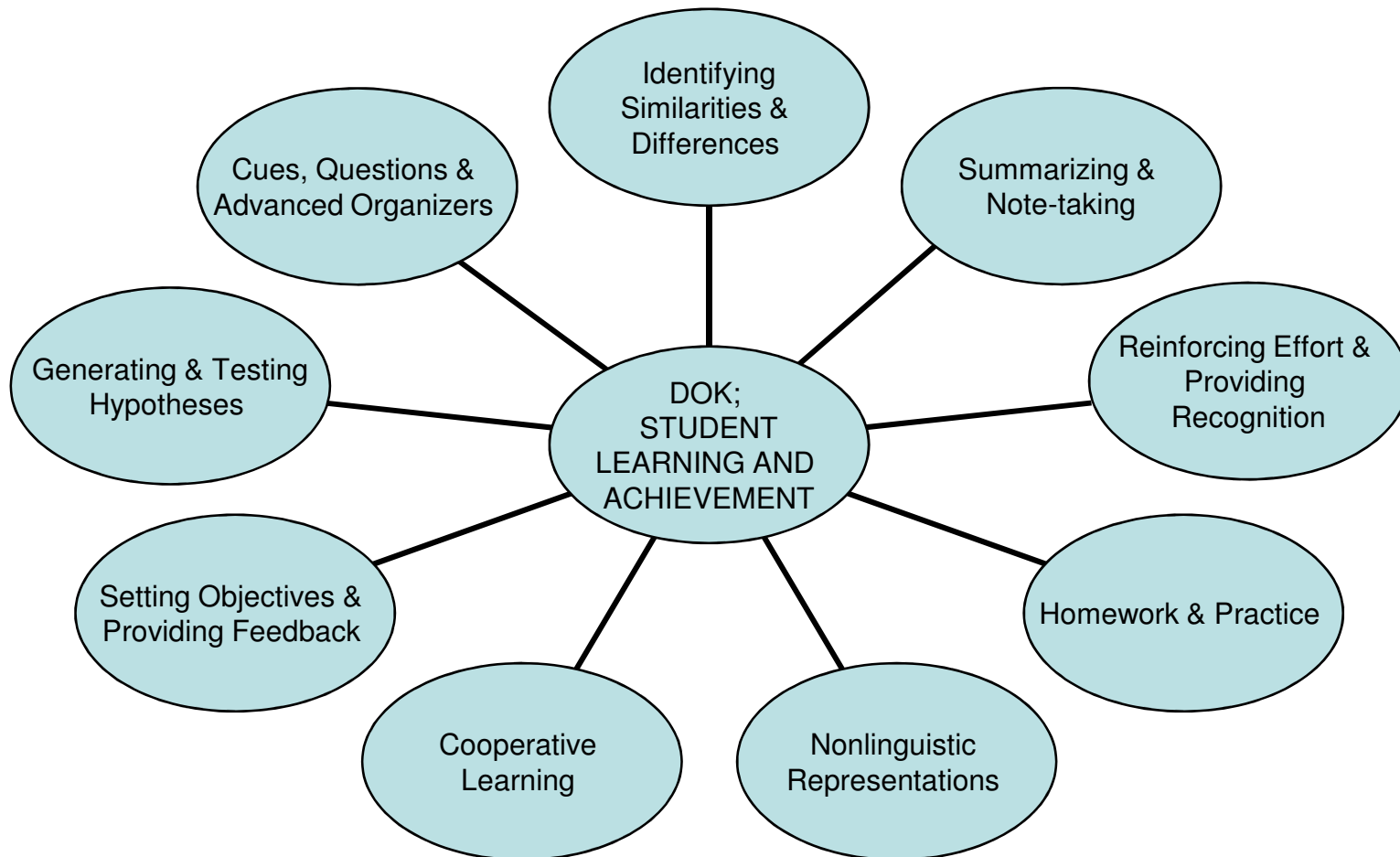
**SPECIAL EDUCATION
ADMINISTRATORS' CONFERENCE**
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Speaking the Same Language

- Marzano
- Depth of Knowledge (DOK)
- Universal Design for Learning (UDL)

Marzano and DOK



Marzano and DOK Another Way...

- For best student learning and DOK:
 - Identifying similarities and differences
 - Summarizing and notetaking
 - Reinforcing effort and providing recognition
 - Homework and practice
 - Nonlinguistic representations
 - Cooperative learning
 - Setting objectives and providing feedback
 - Generating and testing hypotheses
 - Cues, questions, and advanced organizers

Universal Design for Learning

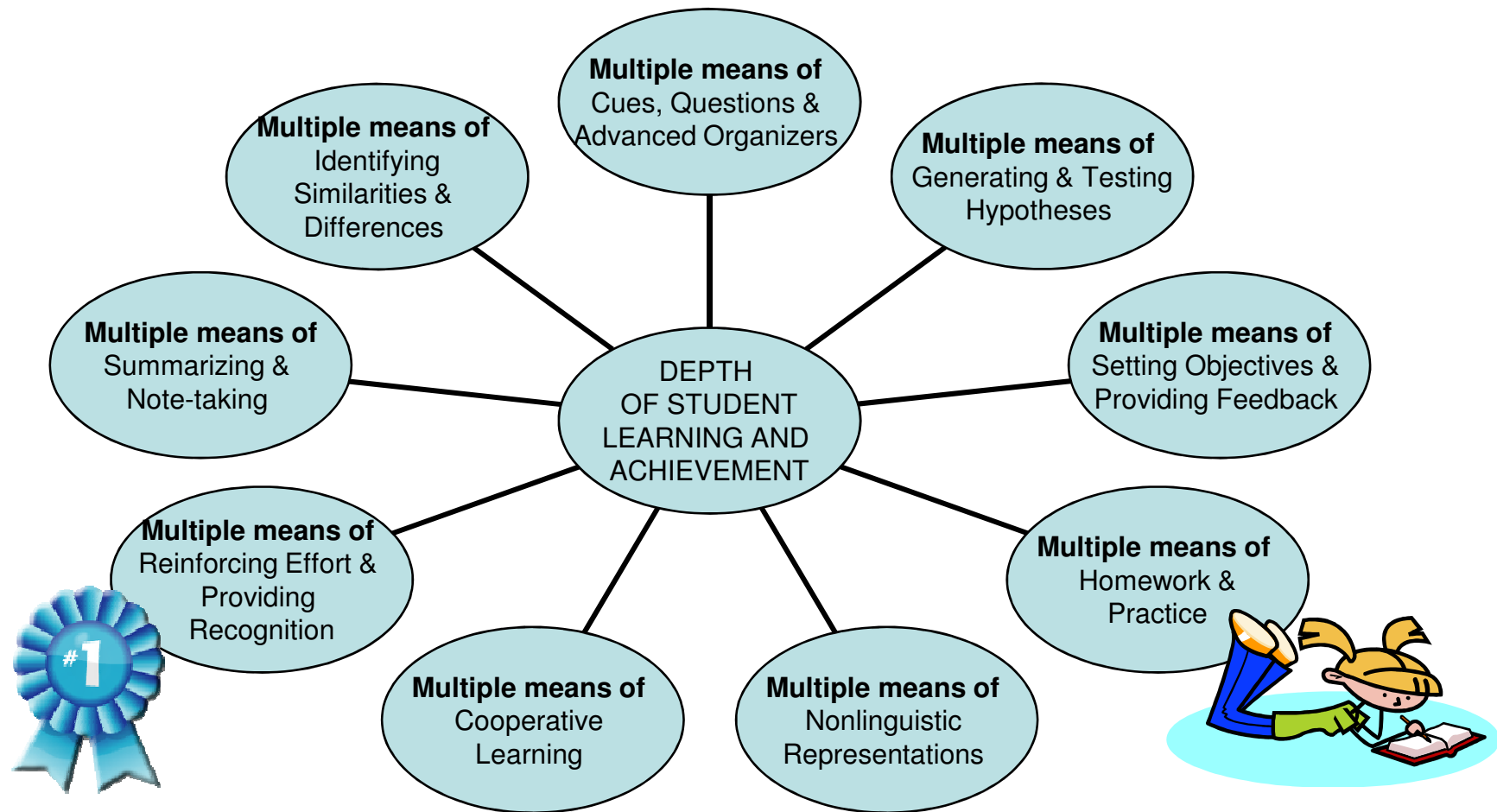
- Definition: “...a research-based framework for designing curricula....that enable all individuals to gain knowledge, skills, and enthusiasm for learning. This is accomplished by simultaneously providing rich supports for learning and reducing barriers to the curriculum, while maintaining high achievement standards for all students.”

<http://www.cast.org/research/faq/index.html#q7>

Universal Design for Learning (UDL)

- Multiple Means of Representation
- Multiple Means of Engagement
- Multiple Means of Expression

Marzano, DOK & UDL = Multiple Means of Applying Marzano



First Steps...Consider Your Audience

- Visual Impairment
- Hearing Impairment
- English Language Learners
- Auditory Learners
- Visual Learners
- Kinesthetic Learners
- English Language Learners
- Reading difficulties
- Writing difficulties
- Attention Deficit Disorder
- Emotional Disturbance
- Gifted students

WOW!

Seriously?

Is This Too Much to Ask????

An inquiry-based approach that draws on student strengths, accommodates for student weaknesses, differentiates to different learning styles/abilities, provides enrichment opportunities for students who are gifted, and results in higher-order thinking, increased student achievement, improved attendance and positive behavior support for all learners.

“The Plug” for Digital Format

- Flexible format that works well with assistive technologies
- Addresses a number of learning styles and ability levels
- Less time and effort for teachers
- Availability of multiple means of representation, engagement and expression
- Allows students to be more independent, self-directed learners

Multiple Means of Representation & Engagement

- Enhancing Visual
 - Strategic use of color (Background or Text)
 - Graphic organizers
 - Strategic use pictures
 - Video
 - Face the audience when speaking
 - Consider font size and type
 - Highlighting (either manually or via computer)
- Compensating for Visual
 - Avoid “clutter”
 - Assistive Technology

Enhancing Visual: Examples

Multiple Means of Representation & Engagement

- Enhancing Auditory
 - Captioning Video
 - Talking through pictures/representations
 - Sound field systems
 - Text-to-speech for written materials
 - Audio for written materials
- Compensating for Auditory
 - Sound field systems
 - Be aware of environment
 - Assistive Technology

Enhancing Auditory: Examples

Multiple Means of Representation & Engagement

- Enhancing Kinesthetic
 - Manipulatives
 - Webquests
 - Digital Images
 - Video
 - Drama

Enhancing Kinesthetic: Examples

Multiple Means of Representation & Engagement

- Enhancing Social
 - Cooperative Learning
 - Project-based learning
- Compensating for Social
 - Opportunity for Independent work
 - Opportunity for working on computer
 - Consider environment

Enhancing Social: Examples

Multiple Means of Expression

- Dictation
- Audio taping
- Graphic Organizers
- Videotaping (“Digital Storytelling”)
- Literacy Support Software for typing
 - Text to Speech
 - Word Prediction
 - Rate of Speech
- Speech Recognition (computer types what you say)
- Powerpoint...Insert:
 - Picture
 - Movies/Sounds
 - Hyperlink
- Voice notes / narration

Multiple Means of Expression: Examples

Questions?

Resources

- Cathy.fortney@fhdschools.org
- www.cast.org
- Marzano, R.J., D.J. Pickering & J.E. Pollock (2001). *Classroom Instruction that Works*. Alexandria, VA: ASCD. (websites with technology ideas and supports - http://t4.jordan.k12.ut.us/professional_development/strategies & [http://manila.esu6.org/instructionalstrategies/stories/storyReader\\$12](http://manila.esu6.org/instructionalstrategies/stories/storyReader$12))
- <http://www.accessibletech4all.org/resources/index.cfm>
- <http://www.washington.edu/accessit/index.php>
- <http://www.wested.org/cs/tdl/print/docs/tdl/home.htm>
- <http://www.readthewords.com/> (free online text reader)