

[www.NinaGcomedian.com](http://www.NinaGcomedian.com)

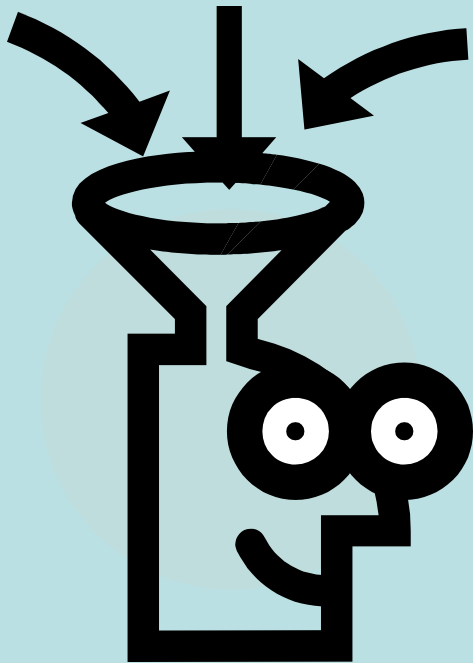
***Learning Ramps***  
***An introduction to Universal Design for Learning***

**Presented by  
Nina G**



# In Pairs....

- Discuss how you learn best and how this might bias you in learning and teaching.



# Objectives

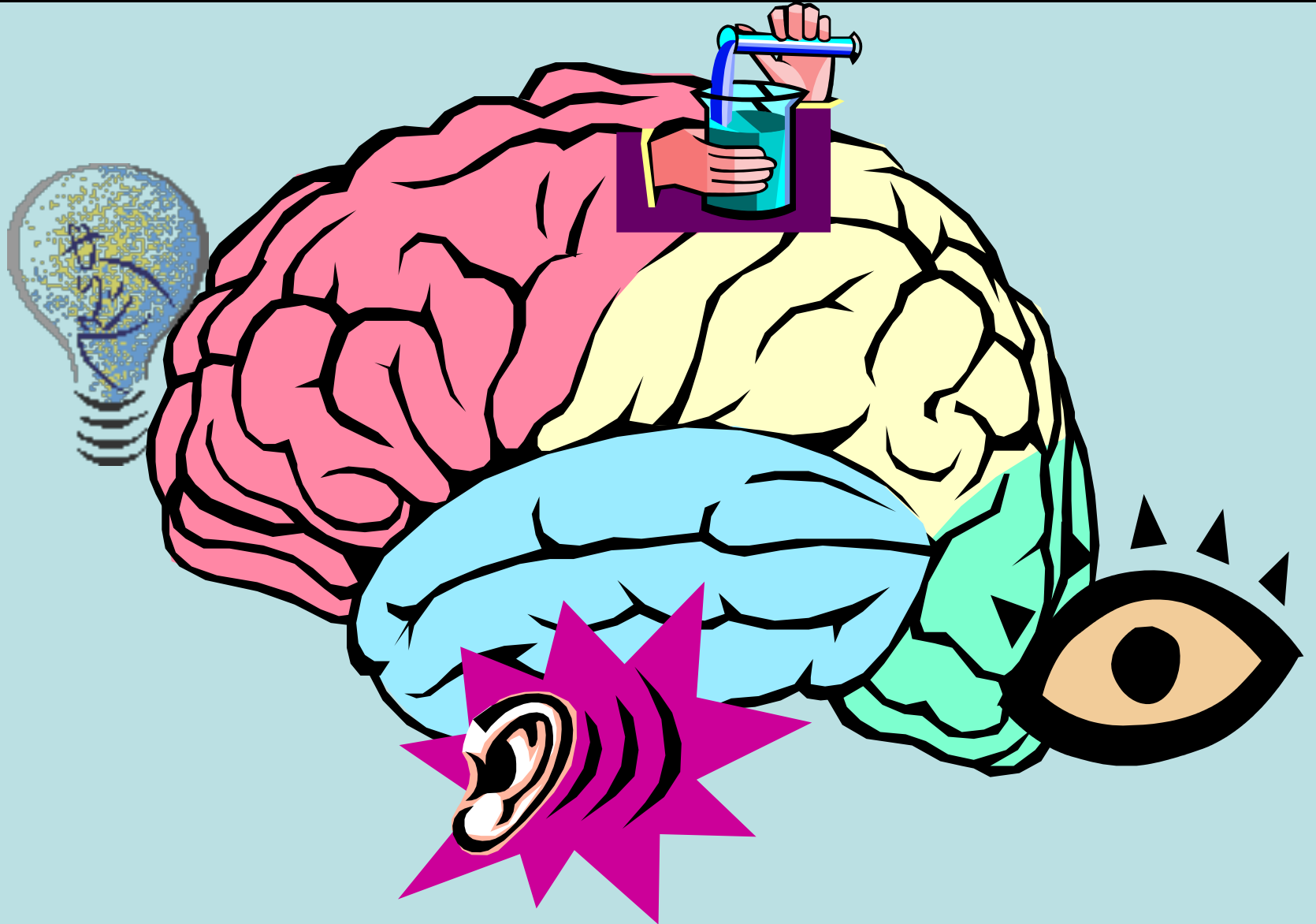


- Understand how your personal learning bias may impact your teaching.
- Understand the principles of Universal Design.
- Address the needs of diverse learners.
- Implement multi-modal/brain-based teaching techniques.

# Two Roads to Addressing SWDs

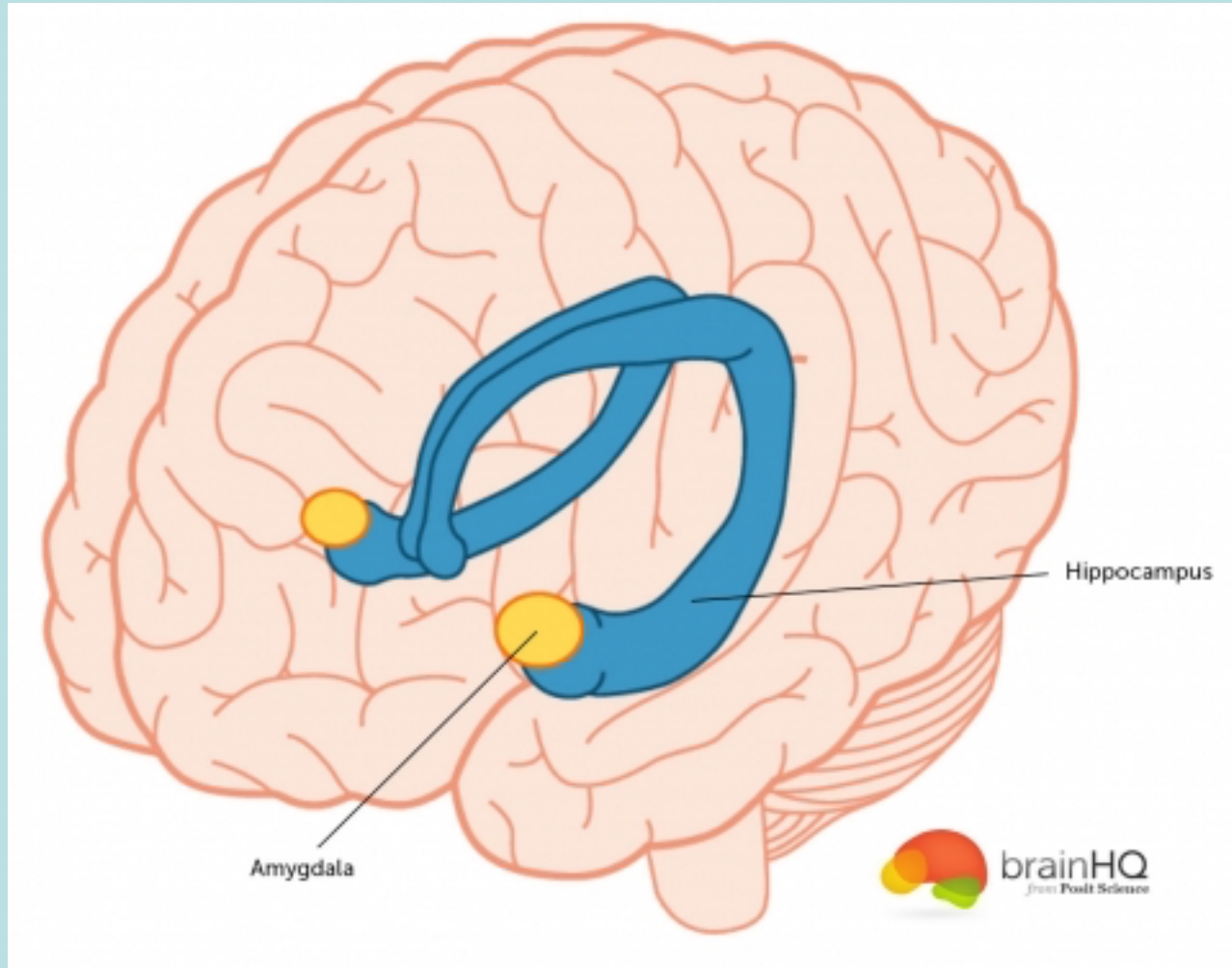
- **Universal Design**
- **Accommodations for specific disability related needs**

# What is Multi-Modal Teaching



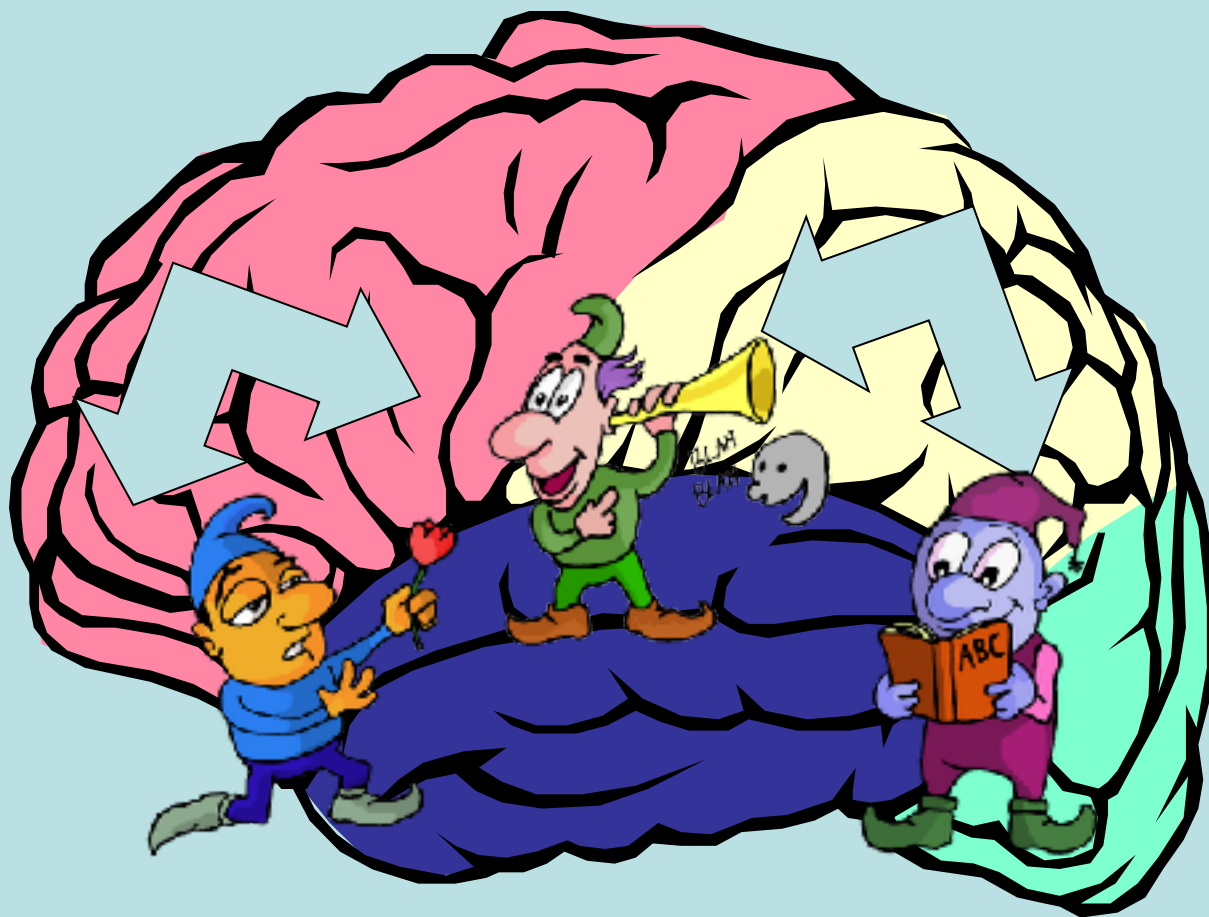


# What is Multi-Modal Teaching





- The castaways were **standard** on the island.
- The castaways were **stranded** on the island.





# Learning

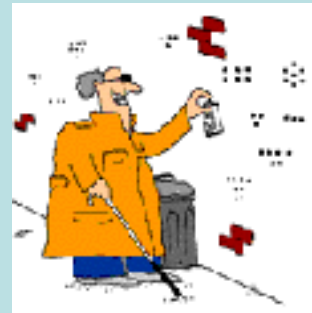
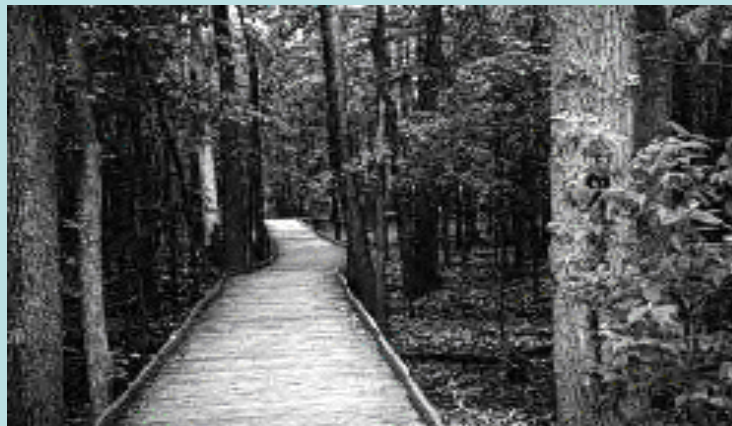
A magnifying glass with a brown handle and a black circular frame is positioned over the word "Learning". The handle extends from the bottom right towards the center of the word. The circular frame is centered over the letters "ing", highlighting the end of the word.

# What we can learn from students with disabilities?

- **All** students learn differently
- When you accommodate the needs of students with disabilities, everyone gets their needs addressed
- Using different modes accommodates the whole brain
- Teaching to disabilities is just good teaching

# Universal Design

**“Universal design is the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.” –Ron Mace**



# Accessibility Bingo

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Objective 1: Become more aware of the needs of People with Disabilities within the environment.

Objective 2: Increase your understanding of Universal design.

Goal: In teams, take a walk for 15 to 30 minutes to assess the accessibility of the surrounding area. We are playing Texas Blackout. So try to mark down as many accessible things as you can. We will compare them in class.

B	I	N	G	O
Doors wide enough for wheelchair users	TTYs for Deaf people to make phone calls.	Signs displayed in Braille.	Bathroom stall wide enough for a wheelchair to get into.	Closed Captioned TV (with the closed caption on)--such as a gym or restaurant.
Automatic door opener.	Water faucet with easy grip handles or automatic.	Fill in something that was NOT accessible.	Curbcuts.	Signs with bullet-points for visual organization.
Grooves on curbcuts that guide people who are Blind.	Fill in something that was accessible.	Totally Accessible Space -Free-	Fill in something that was NOT accessible.	Amplified phones for the Hard-of-Hearing.
Sign expressed in pictures, in addition or instead of words.	Chirping signal lights for Blind walkers.	Fill in something that was accessible.	Documents offered in an alternative format.	Books in audio form
Ramp and stairs for equal access.	Alternative path when there are stairs that is equal, but not separate.	Squishy toys or playdo for students who fidget.	Drinking fountain at wheelchair level.	“Handicap” parking.
Copyright, Nina G.				

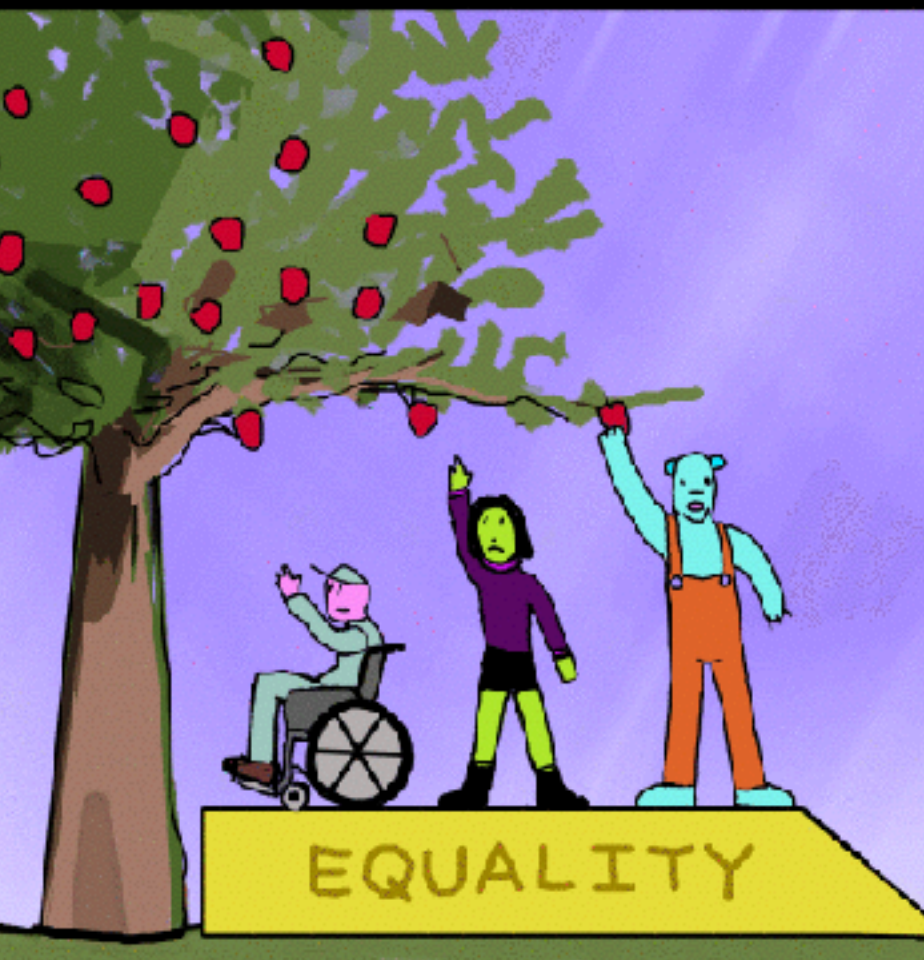
# Equality



# Equity







# UDL and the Brain



**Engagement**

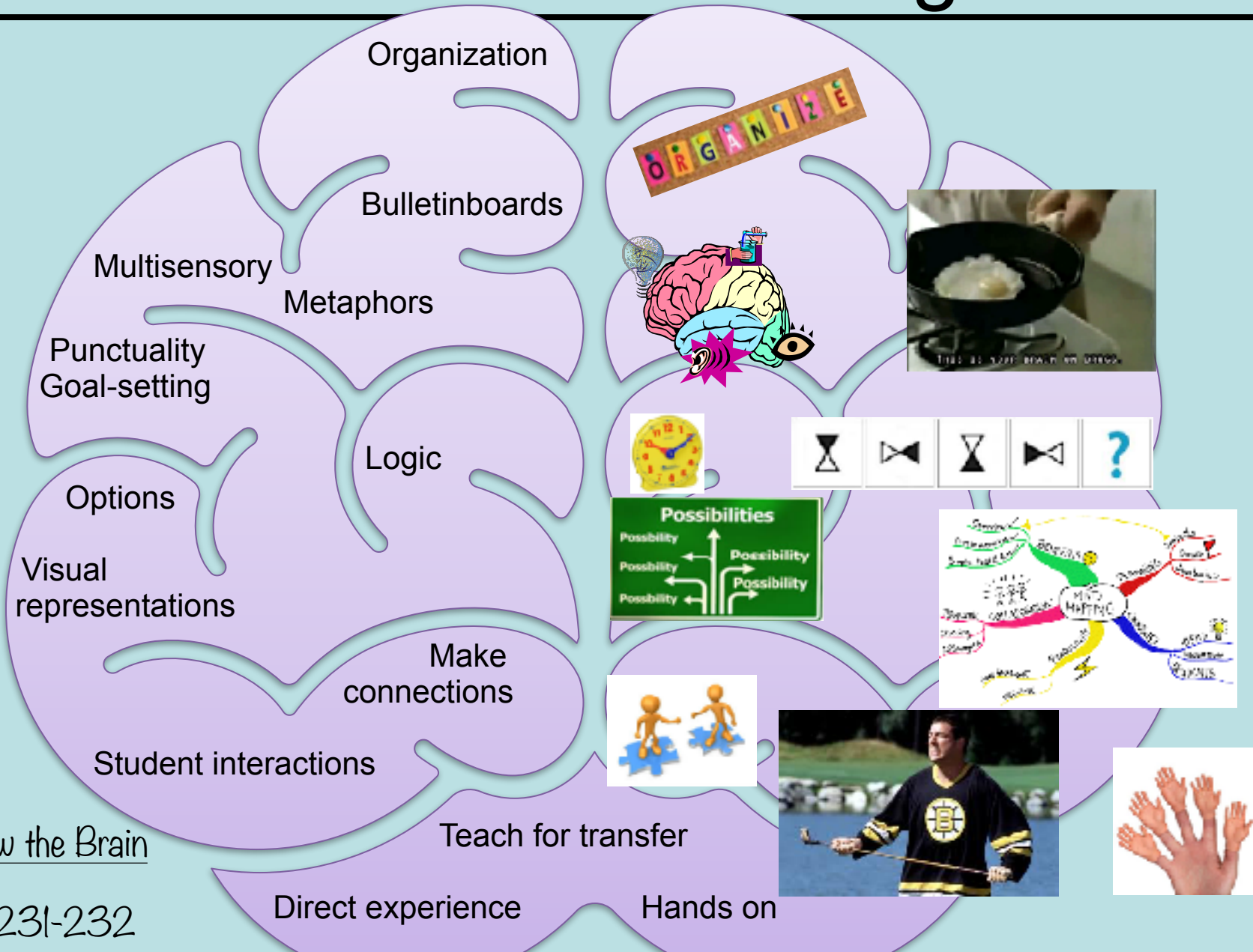


**Representation of  
information**



**Action, expression and  
assessment**

# Whole Brain Learning



Souza, How the Brain

Learns, p. 231-232

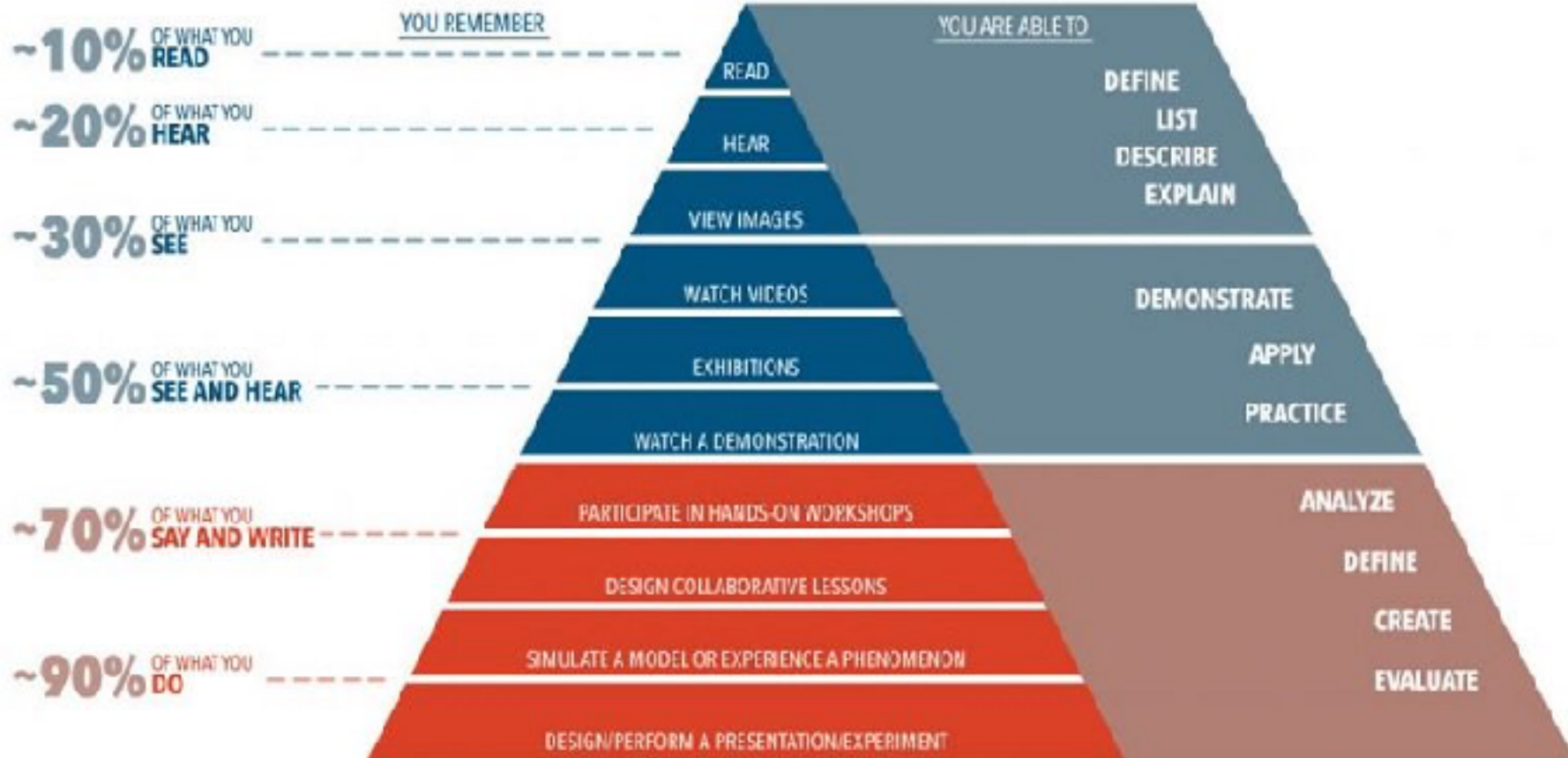


# CONE OF EXPERIENCE

EDGAR DALE

PASSIVE LEARNING

ACTIVE LEARNING



*What I hear, I forget.*

*What I see, I remember.*

*What I do, I understand.*

*---Confucius*

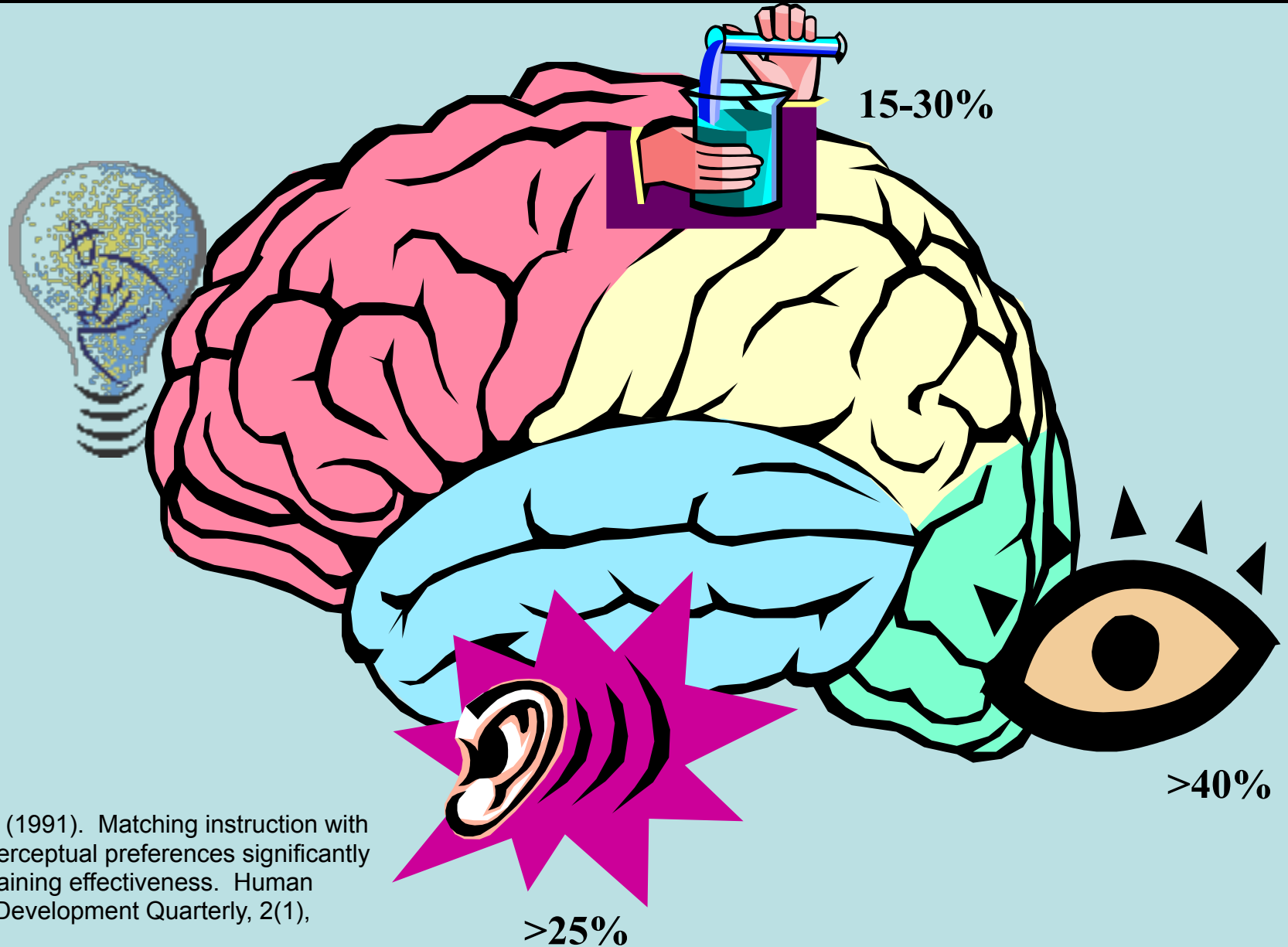
# Traditional Instruction



- Chalk and Talk Model
- Sustained Lecture (Johnson, Johnson, & Smith, 1991)
  - Attention decreases with each passing moment
  - Appeals only to auditory learners
  - Lower levels of learning at a factual level
  - Makes assumptions about the needs of the students



# What is Multi-Modal Teaching



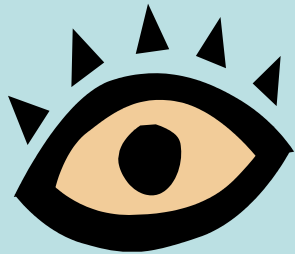
Ingrahm, J., (1991). Matching instruction with employee perceptual preferences significantly increases training effectiveness. Human Resources Development Quarterly, 2(1), 53-64

# Learning Styles

- **Auditory**



- **Visual**



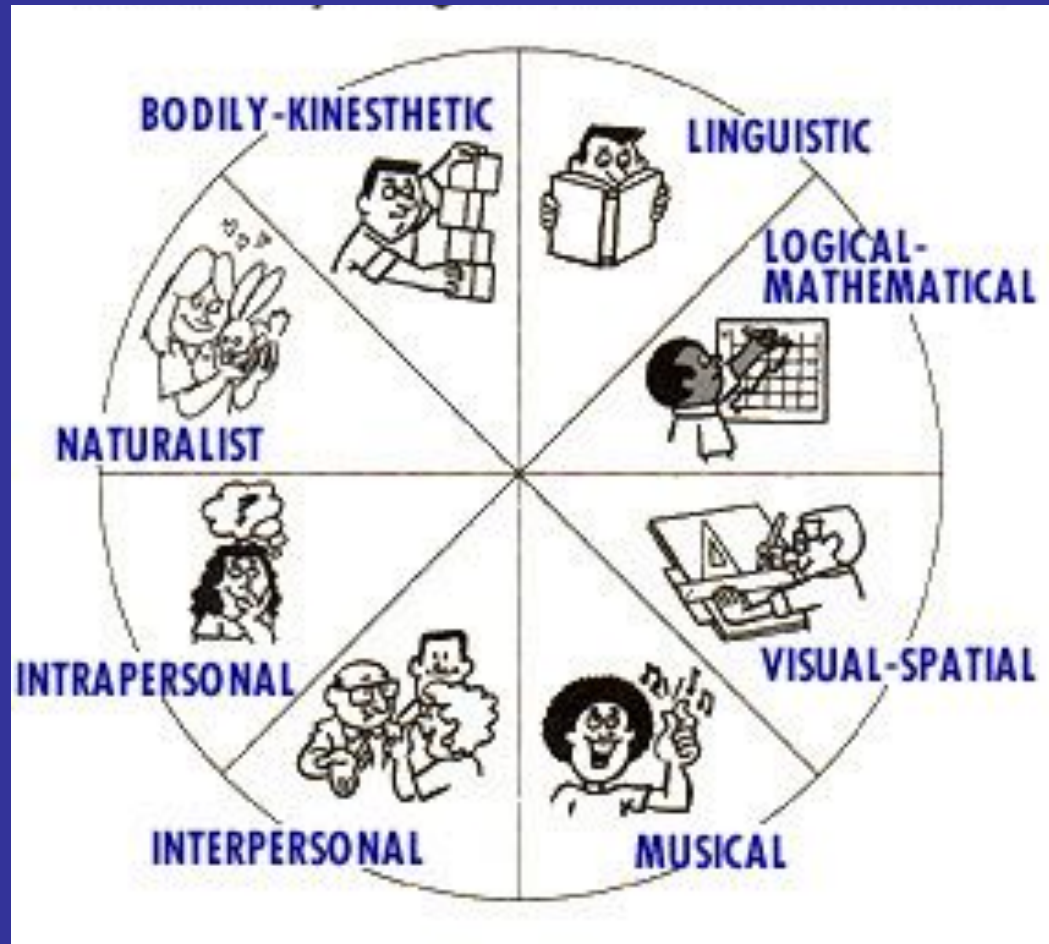
- **Tactile-Kinesthetic**



# Multiple Intelligence

- **Linguistic**
- **Logical-Mathematical**
- **Interpersonal**
- **Intrapersonal**
- **Naturalist**
- **Visual Spatial**
- **Logical-Mathematical**
- **Intrapersonal**
- **Naturalist**
- **Bodily-Kinesthetic**
- **Visual-Spatial**
- **Musical-Rhythmic**
- **Naturalist**

# Multiple Intelligences

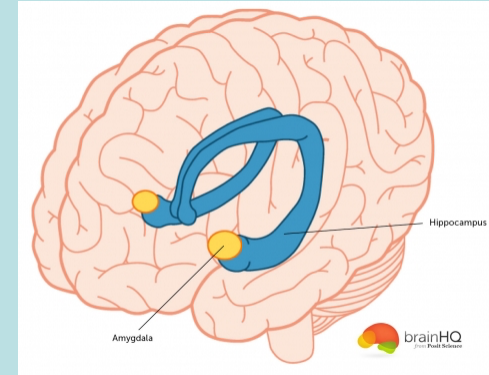


# Implementing Brain Based Teaching

- In groups, come up with brain compatible teaching techniques you might implement in your own classroom. Prepare to present this information to the rest of the class.
  - Consider the following brain functions:
    - Visual
    - Auditory
    - Kinetic
    - Emotional

# Emotional Modes In Teaching

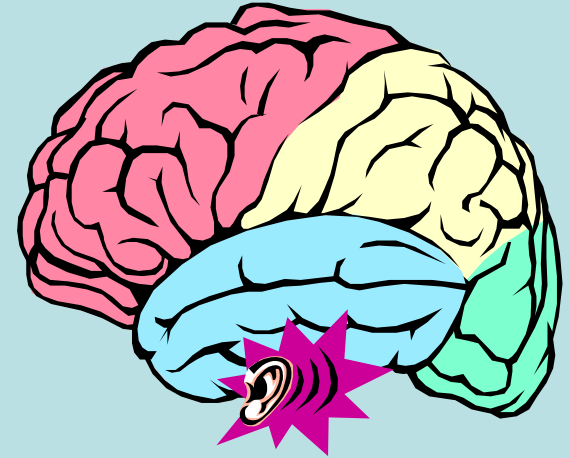
- Discuss how to convey and how emotions can impact learning.



# Auditory Modes In Teaching

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- Brainstorming
- Metaphors, analogies, and similes
- Music and rhyme
- Reciprocal teaching

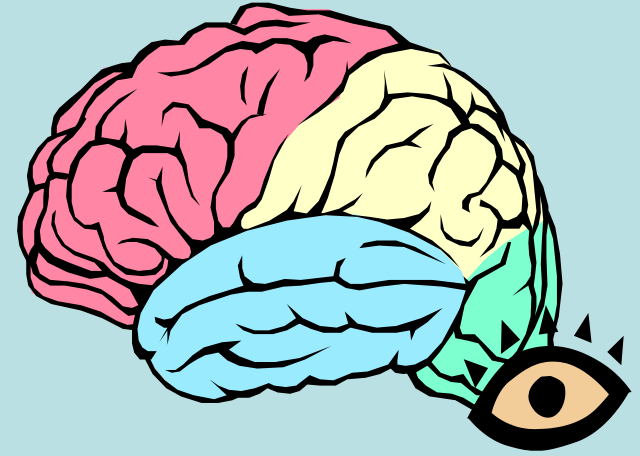




# Visual Modes In Teaching

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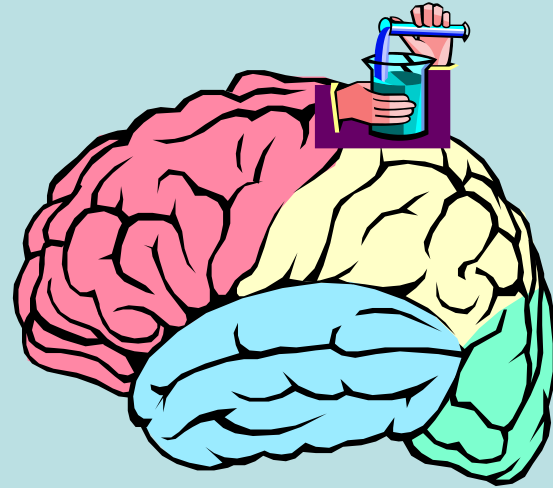
- Graphic organizers
- Mnemonic Devices
- Project based instruction
- Visualization
- Videos



# Kinetic Modes In Teaching

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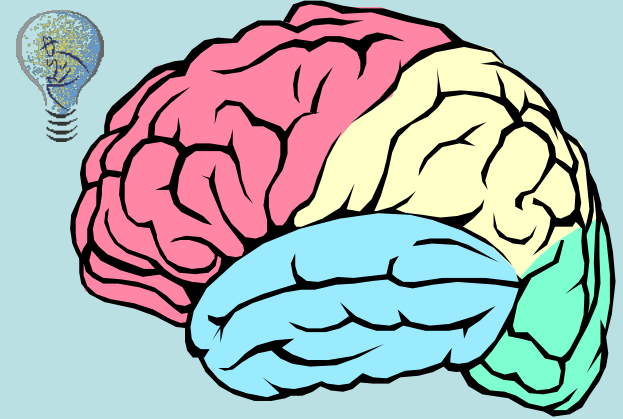
- Movement
- Drawing/artwork
- Games
- Manipulatives
- Role plays
- Action Research



# Novelty In Teaching

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- Humor
- Movement
- Multisensory Instruction
- Quiz games
- Music



# Example from Brain Based Teaching

- Menu of assignments
  - Offer students different modes to fulfill assignments.
  - Allow students to different ways to learn and express what they learn
  - Allow student to build on interests and backgrounds
- [www.help4teachers.com](http://www.help4teachers.com)

# Teaching to different learning styles

The following are an excerpt from: Teaching Kids with Learning Difficulties in the regular Classroom: Strategies and Techniques Every Teacher Can Use to Challenge and Motivate Struggling Students

by

Susan Winebrenner and Pamela Espeland

# Visual Learners

- Pictures rather than words
- Viewing rather than reading (e.g. videos, demonstrations, examples)
- Look for an example of the finished product
- Visualizing scenes, characters, and actions as they read or learn about them
- Finding visual cues in text (charts, pictures, etc.)



# Visual Learners

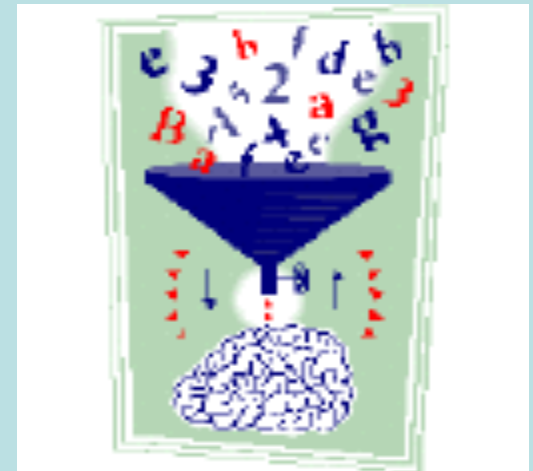
- Graphic organization (mapping, illustration in chart form)
- Using artistic means for what they learned
- If you get something wrong, look for an example of what the right answer is
- Visual order in the workplace
- Drawing or doodling while listening





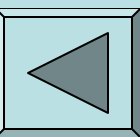
# Kinetic Learners

- Express concepts through art or unique study materials
- Jig-saw activities: each student/group takes on one aspect of a larger concept which they teach to the class and build onto other student's presentations.
- Receive concrete examples at the beginning of a learning experience- Understand what you are learning



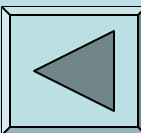
# Kinetic Learners

- Learn best by doing
- Integrate tactile models when appropriate
- Directly apply principles learned in class or at internships
- Incorporate role play or simulations



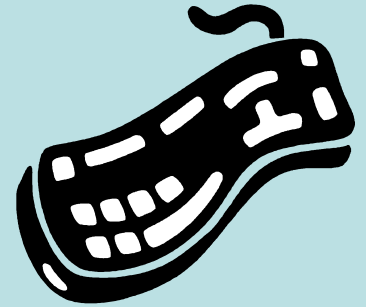
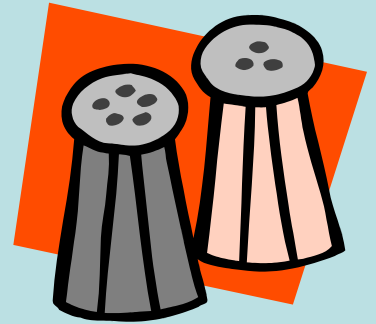
# Kinetic Learners

- Moving while learning:  
squishy balls
- Learning academics after  
doing physical activities
- Acting out stories and  
events
- Fidgeting or chewing  
while thinking



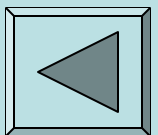
# Kinetic Learners

- Writing in different media (sand, salt, shaving cream, pudding)
- Word processing instead of handwriting
- Learning and creating raps, rhythms, rhymes, and jingles



# Auditory Learners

- Syllabus/Reading assignments given to students early so they can prepare for accommodations
- Books in accessible formats.
- Request that handouts are posted on the web
- Read and describe what you put on the board.



# Auditory Learners

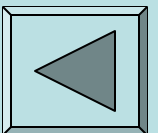
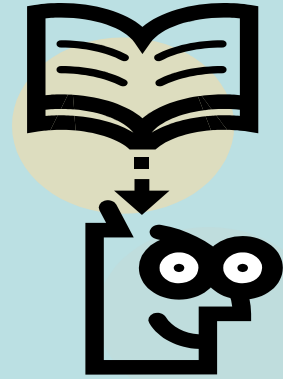
- Give out handouts that are inaccessible early so that they can be put onto tape
- Orient students to what you will be discussing and why
- Offer verbal support to graphs and pictures
- Create study tapes with the information needed for the test. Study groups can prepare tapes and duplicate them for each other





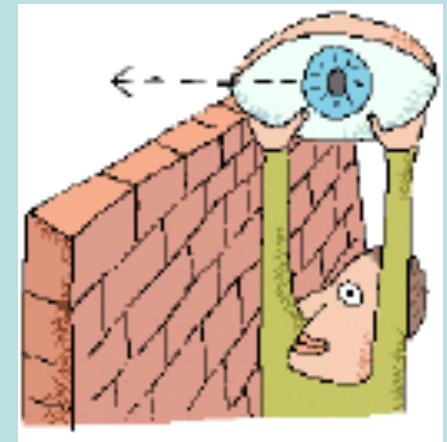
# Analytic/Applied Learners

- Know the context of what you will be learning. What is the larger picture?
- Build on concepts from the materials
- Find ways of integrating knowledge



# Analytic/Applied Learners

- Allow for group work to build on other people's ideas and present information in an original way
- Present students with case studies and scenarios for them to apply problem-solving skills



# Reflection: What have you learned?

1.

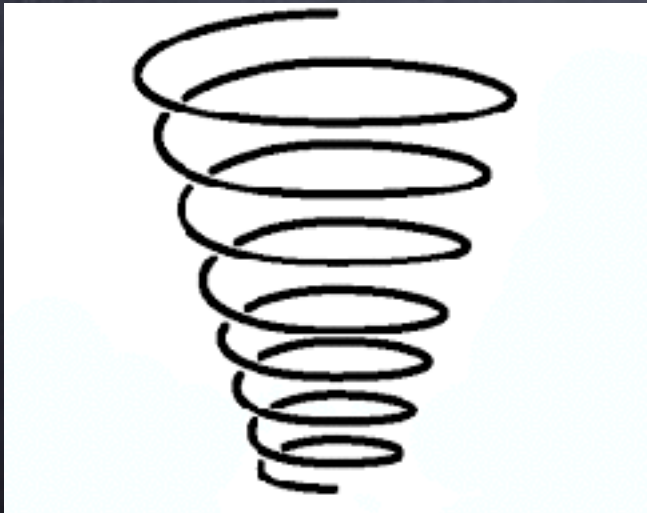
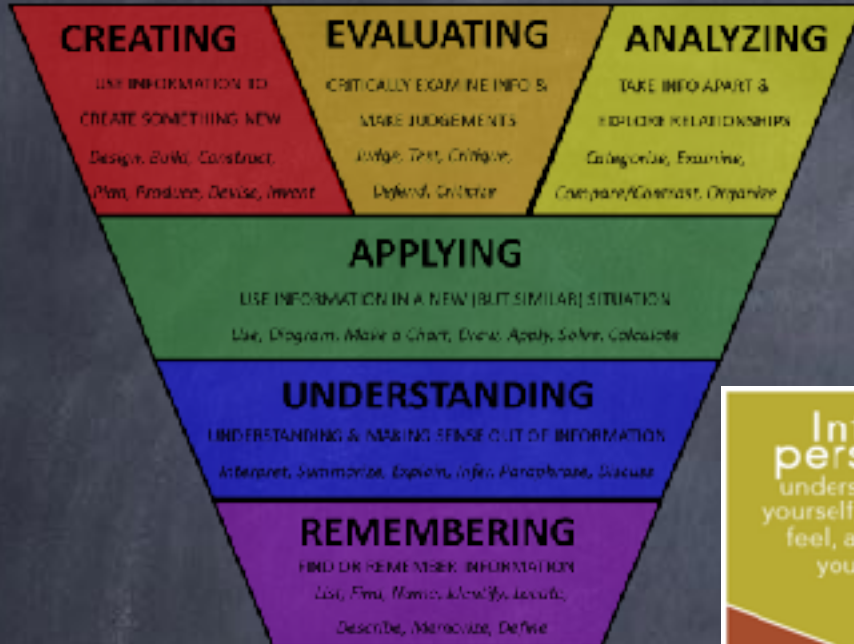
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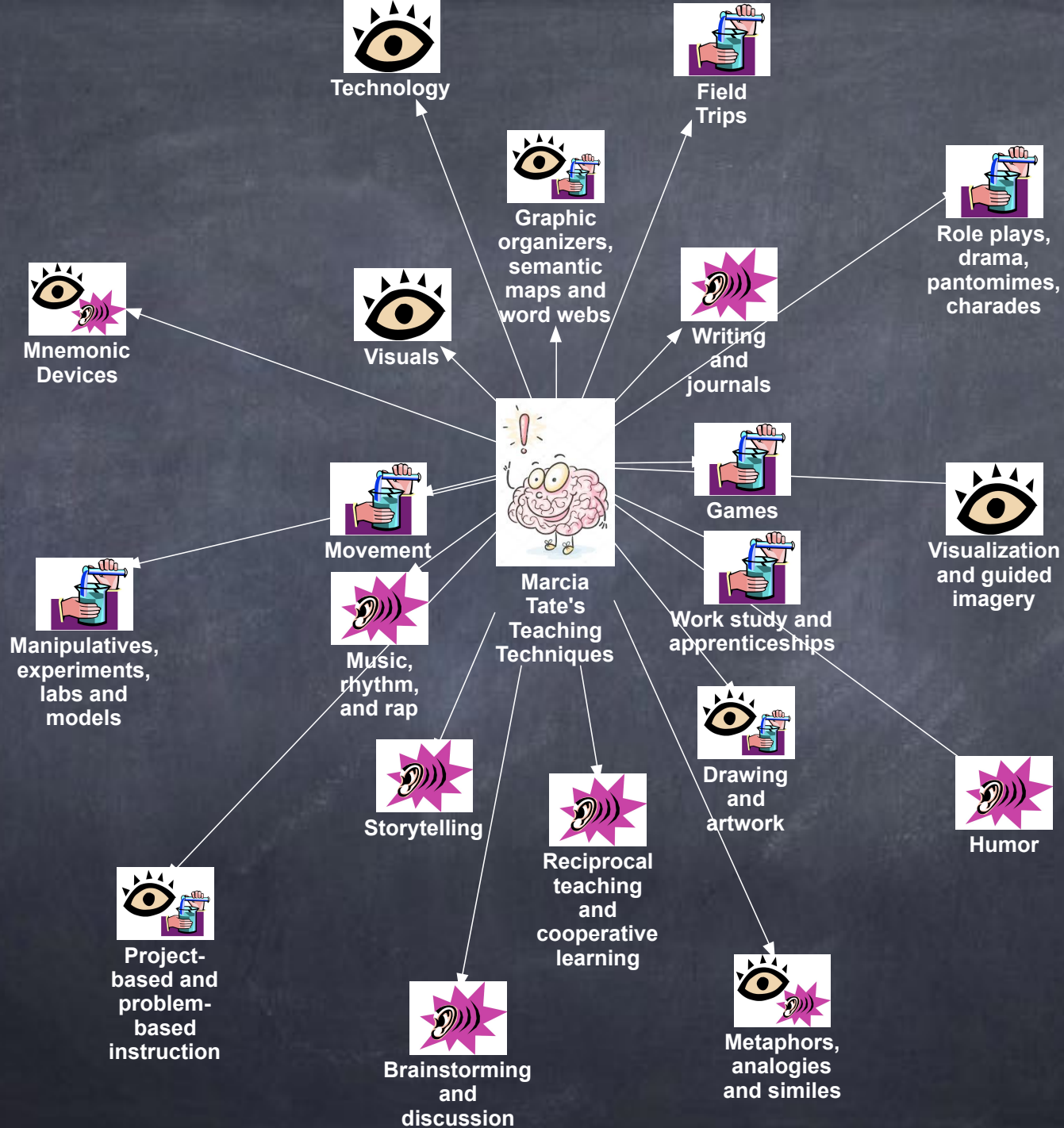
3.

# Objective/Outcome:

What is the traditional way this objective has been taught?

# UDL Cheat Sheet







Brainstorm as many ways as possible to teach this objective.

Use UDL!

What are three teaching techniques you might use to teach this objective?

What barriers might occur with how this objective will be taught? Consider Disability (learning, attention, physical, blindness, deafness, psych/trauma, etc...), linguistic diversity and learning styles. What are possible accommodations?

# Objective/Outcome:

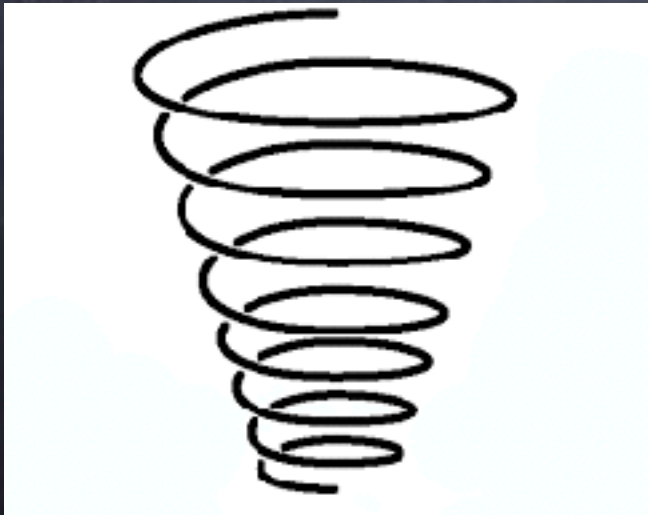
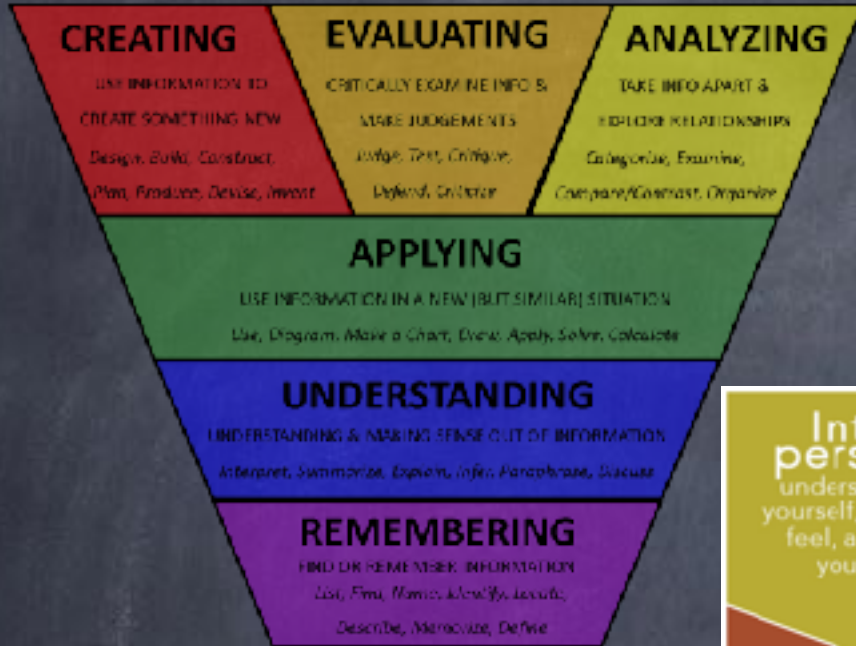
Students will understand the lobes of the brain and how they are connected with dyslexia

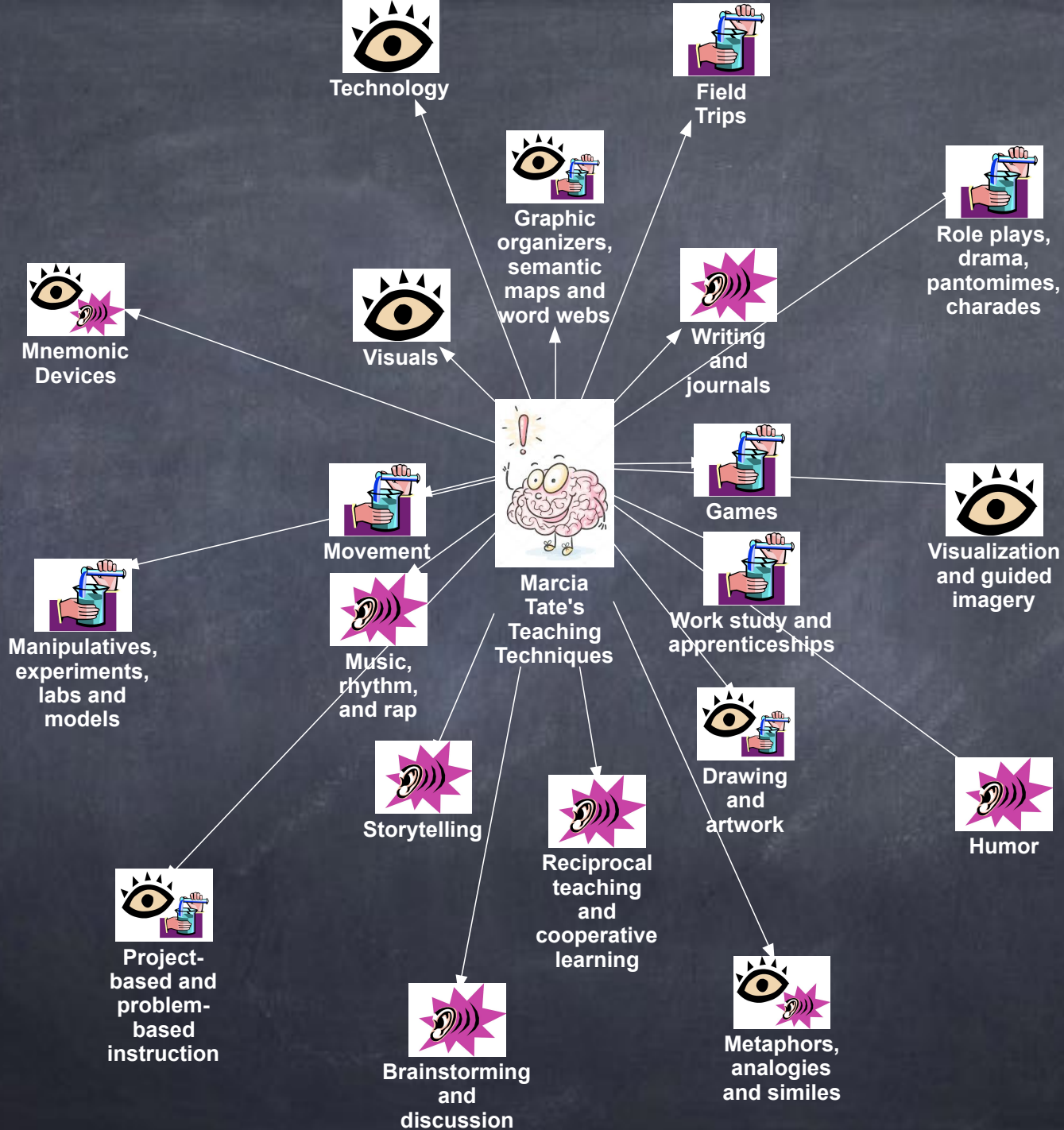
What is the traditional way this objective has been taught?

Traditionally the trainer lectures on dyslexia and shows slides of the differences in the brain.



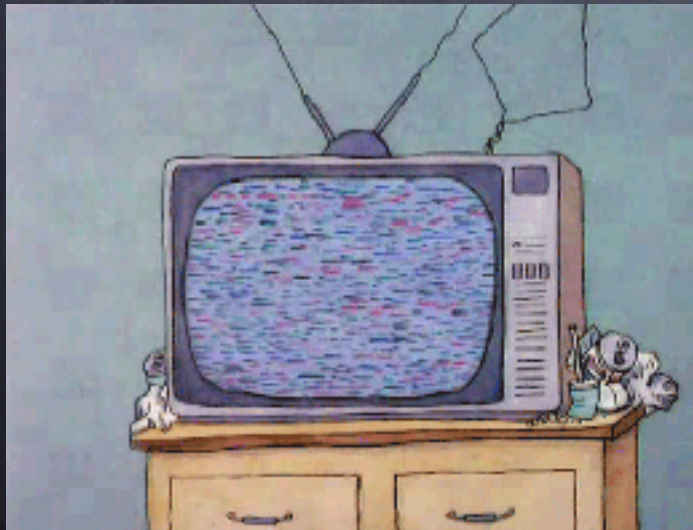
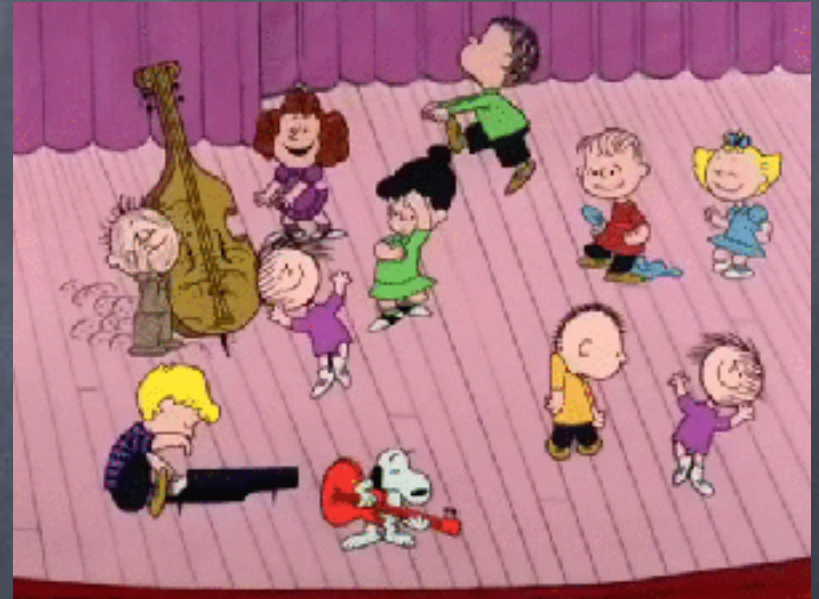
# UDL Cheat Sheet



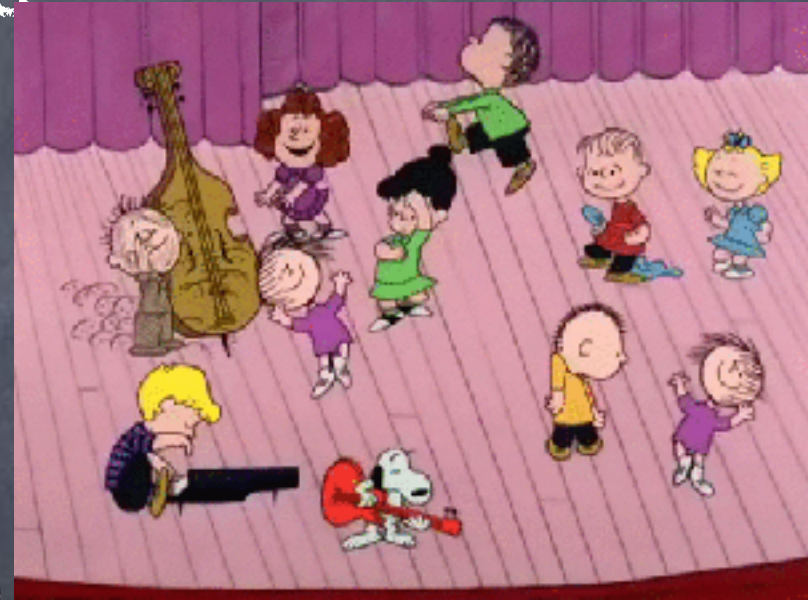




Brainstorm as many ways as possible to teach this objective.  
Use UDL!



What are three teaching techniques you might use to teach this objective?





What barriers might occur with how this objective will be taught? Consider Disability (learning, attention, physical, blindness, deafness, psych/trauma, etc...), linguistic diversity and learning styles.

If someone has a physical disability, they will not be able to dance with their feet. I could adjust this by offering hand, head or eye movements instead.

Some students want to write down the different names of the brain parts. I could write those down.