



# Approach to teaching and learning

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# Teachers

- Lead and demonstrate
  - Encourage the students to learn and make the decisions under guidance
  - Be enthusiastic, flexible, and well organized
  - Be good at subject knowledge
  - Have clarity of purpose and explanation
  - Have expectations
  - Have a sense of fun and humor
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# Learners

- Learning theory : Retention → Remember

- 5%          Lecture

- 10%        Reading

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- 15%        Visual arts

- 30%        Demonstrations

- 50%        Small group work

- 75%        Experimental work

- 90%        peer tutoring

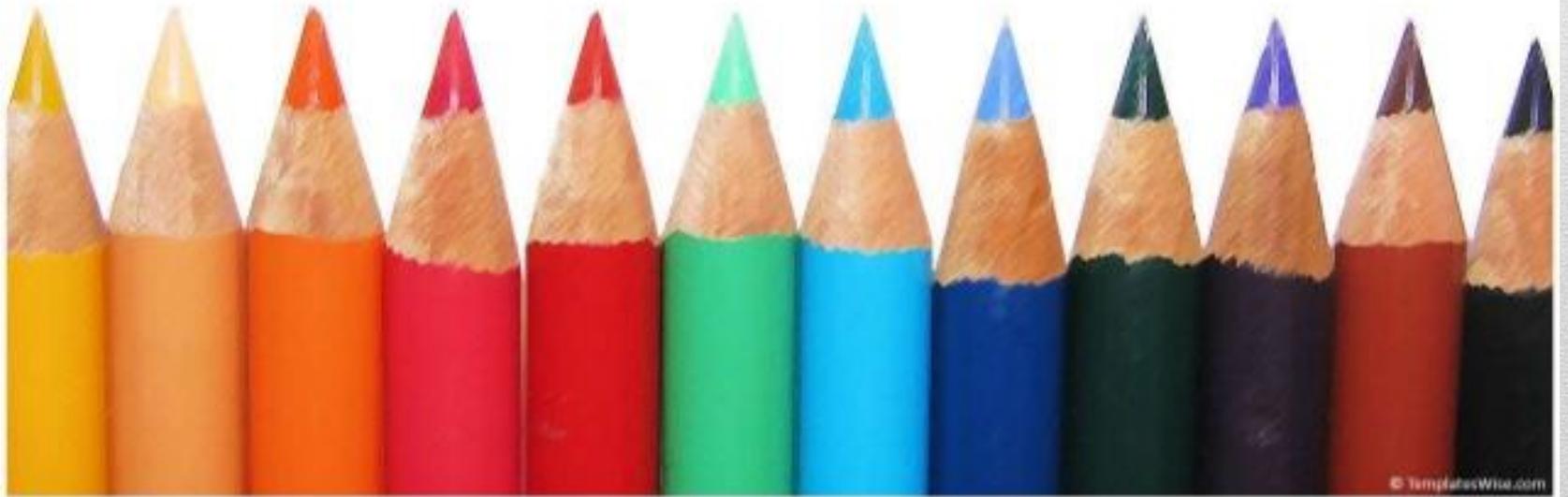
Visual

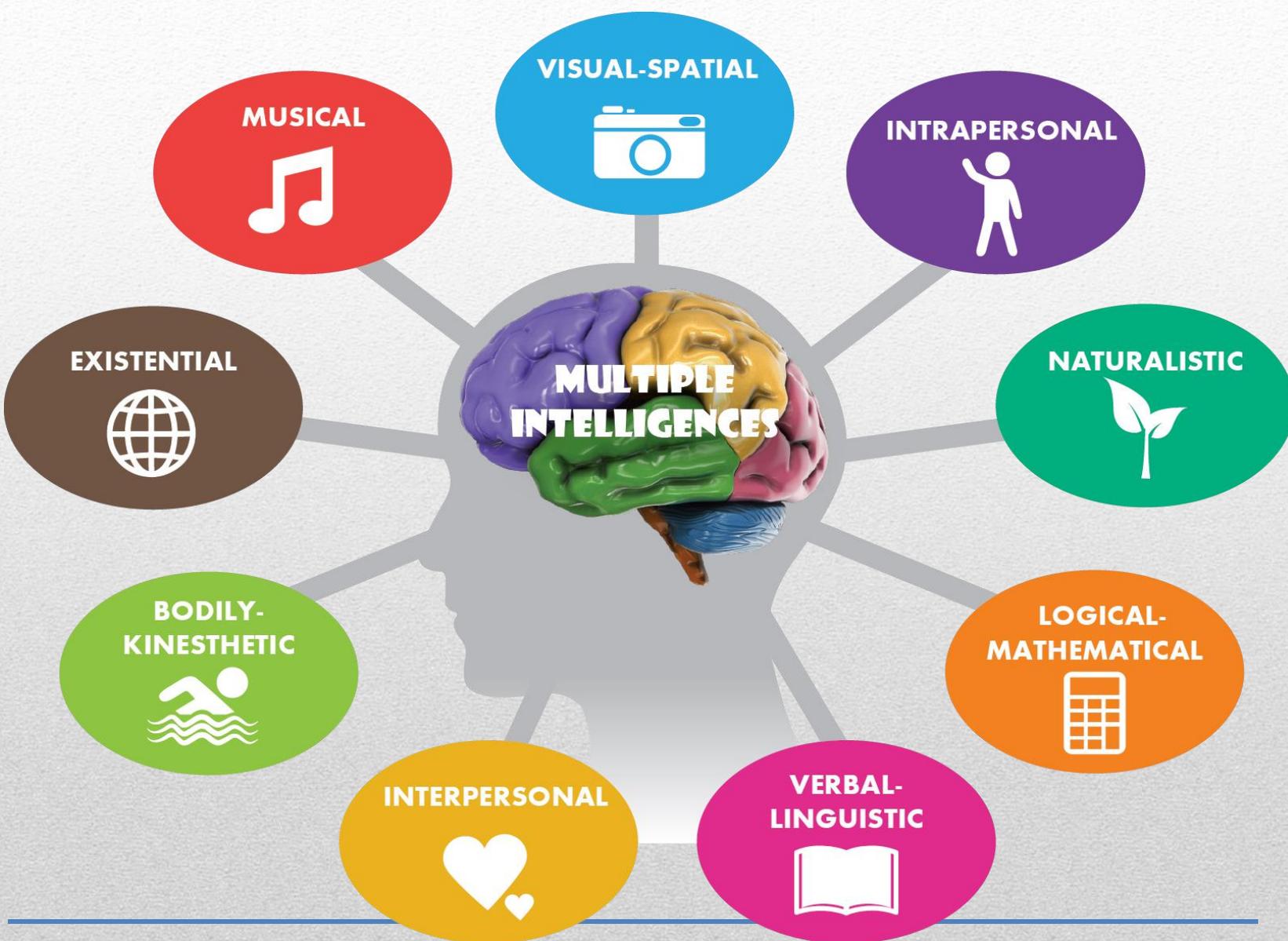
Auditory

Kinesthetic

# Multiple Intelligences

By Dr. Howard Gardner





# Verbal/Linguistic Intelligence



- **Ability to use words and language**
- **Highly developed auditory skills**
- **Elegant speakers**
- **Think in words**



## Word Smart

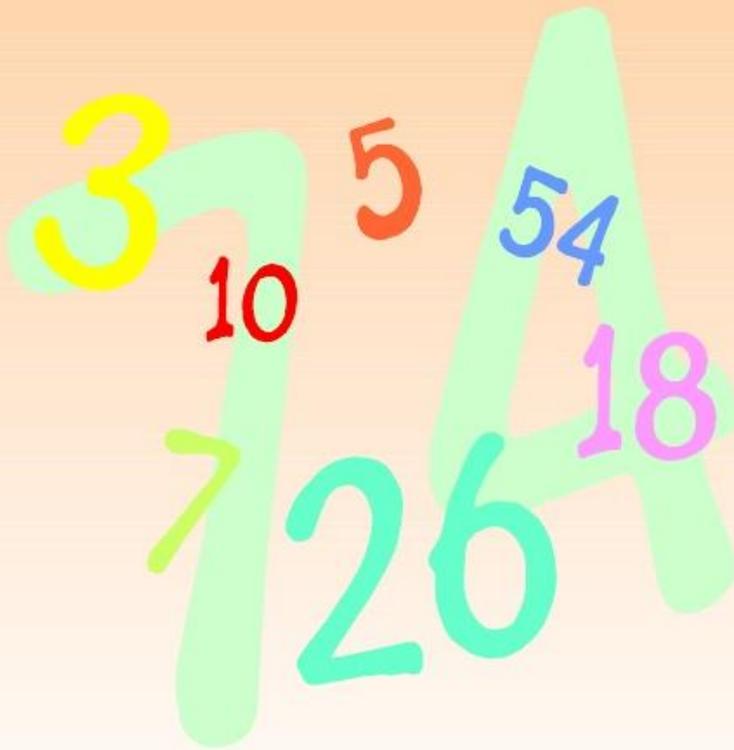
Articulate, have a natural way with words  
(talkers & listeners)

## Learning style

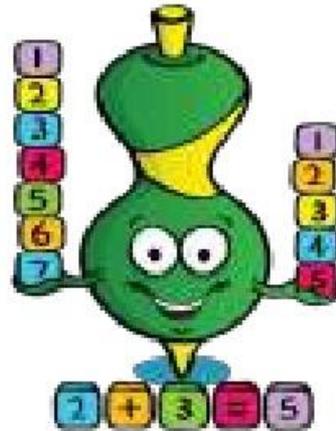
Hearing, listening, speaking



# Logical/Mathematical Intelligence



- **Ability to use reason, logic, and numbers**
- **Think conceptually**
- **Logical and numerical patterns**
- **Make connections between information and data**



## Logic Smart

Have a natural way with numbers, abstract concepts and reasoning.

## Learning style

Observation, experimentation & “What if”

# Visual/Spatial Intelligence



- **Ability to perceive the visual**
- **Think in pictures**
- **Create mental images**
- **Enjoy looking at maps, charts, pictures, videos, and movies**



## **Picture Smart**

Visual learners, eye for details and colors

## **Learning style**

Use visual supports - Charts, pictures, videos

# Bodily/Kinesthetic Intelligence



- **Ability to control body movements and handle objects**
- **Express themselves through movement**
- **Good sense of balance**
- **Excellent eye-hand coordination.**



## **Body Smart**

Kinesthetic (movement) and Tactile (Touch)

## **Learning style**

Doing rather than watching / hearing,  
Skits, Breaks to stretch

# Musical/Rhythmic Intelligence



- **Ability to produce and appreciate music**
- **Think in sounds, rhythms, and patterns**
- **Respond to music and sounds**



## **Music Smart**

High sensitivity to sounds, tones and music

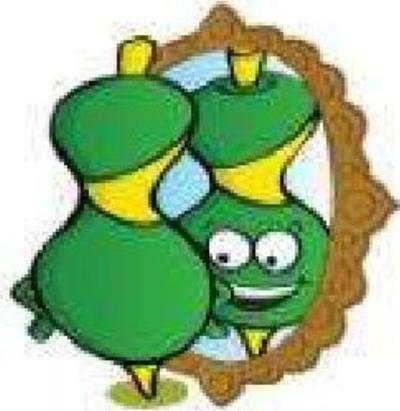
## **Learning style**

Rhyming/Songs/Clapping to memorize info, working with music in background

# Intrapersonal Intelligence



- **Ability to self-reflect**
- **Understand inner feelings, dreams, relationships**
- **Appreciate their strengths and weaknesses**



## **Self Smart**

High self esteem, learn from their own mistakes

## **Learning style**

Learn best by concentrating and empathizing



# Interpersonal Intelligence



- **Ability to relate and understand others**
- **See other's point of view**
- **Understand how others think and feel**
- **Sense others feelings, intentions, and motivations**



## **People Smart**

Lots of friends, enjoy socializing

## **Learning style**

Working with others - Discussions and debates

# Naturalist Intelligence



- Ability to distinguish or classify the environment
  - be sensitive to the environment
  - Interact with the surroundings
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## **Nature Smart**

Connected to nature, able to tend and grow a plant

## **Learning style**

Learn best when they are outdoors and when things are related to nature



# Existential Intelligence



- Capacity to raise and reflect on philosophical questions about life death and realities
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# Methodologies

- **Active learning**
  - **Problem-solving (strategies, teaching, learning)**
  - **Co-operative learning**
  - **Discovery learning**
  - **ICT as a tool for teaching**
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## References:

Multiple Intelligences Slide share : Santhosh  
Kumar Subramanian

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