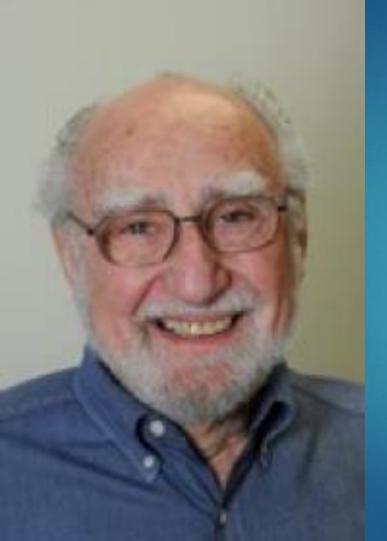
Lost in Space

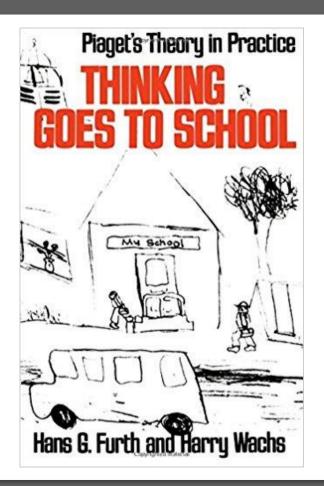
SOCIAL, EMOTIONAL, FUNCTIONAL AND ACADEMIC CHALLENGES DUE TO VISION CHALLENGES

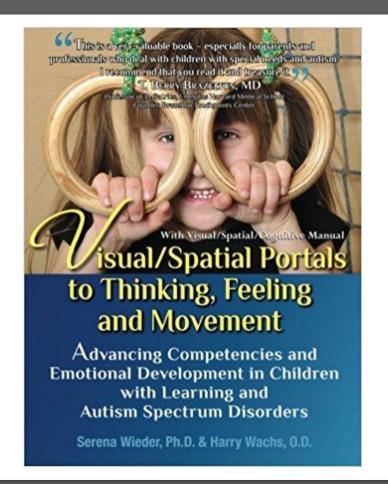
Dr. Mehrnaz D. Azimi Green KISS 2021



Harry Wachs (1924-2016)

- Vision is the foundation of cognition
- Integrated stages of Piaget's cognitive development with the development of vision
- Visual-Cognitive therapy integrates sensorimotor and cognitive hierarchies to strengthen vision development





Vision Problems Impacting Everyday Life

HTTPS://WWW.YOUTUBE.COM/WATCH?V=VQVNX2KERVW&FEATURE =YOUTU.BE&AB_CHANNEL=SH

How do they feel?

- **▶**Stuck
- **▶**Scared
- ► Anxious
- ▶ Helpless
- ▶ Angry
- ▶ Frustrated
- ▶ Hopeless



Lost in Space-Why?

- Inflexible with their thinking-unable to appreciate the escalator as stairs
- Can't figure out how to move their body to solve the problem
- Feeling that the world happens to them, rather than being an active participate of their situation
- Learned helplessness-somebody needs to save me



Lost in Space = Vision Deficits



- ▶ Vision vs. Sight
- Vision guides purposeful movement through space





Dr. Serena Weider

- "Poor visual spatial knowledge will interfere with movement, sequencing and learning language because visual experiences will be distorted or inconsistent."
- "Poor visual spatial knowledge can derail daily adaptation, executive functions, interactions with family and peers, and learning."
- "Poor visual spatial knowledge can interfere with symbolic development and abstract thinking"

Recognizing Vision Problems: Ocular Sensorimotor Challenges

- Closing of an eye
- Eye turning in or out at any time
- Excessive blinking
- Squinting
- Tearing
- Redness
- Swelling
- Poor attention Span
- Poor tracking
- Poor eye-hand coordination

- Poor eye teaming
- Confusion of Shapes
- Learning challenges
- Holding book very close or very far away
- Eye discomfort and fatigue
- Headaches
- Burning
- Itching
- Double vision
- Dizziness
- Blur

Recognizing
Vision
Problems:
Holds on to
Visual
Anchors



Same clothes



Same routines



Rigid about the way people, objects or environements look

Recognizing Vision Problems: Social Challenges

- ▶Poor eye contact
- ▶ Aimless
- Poor shared attention
- Poor awareness of personal space

Recognizing Vision Problems: Social Challenges

Poor problem-solving skills

Difficulty reading social cues

Poor organization

Fearful

Anxious

Obsessive



Recognizing Vision Problems: Challenges with ADL





- Q Difficulty finding objects
- Difficulty following directions
- Difficulty organizing and completing tasks

Recognizing
Vision
Problems:
Challenges
when
Playing

AVOID OR HAVE DIFFICULTY WITH GAMES THAT REQUIRE VISUAL PERCEPTUAL SKILLS OR STRATEGIES

CANNOT FIND DESIRED TOYS IN PLAIN SIGHT

WANT TO PLAY WITH SAME TOYS AND PUZZLES

USE TACTILE SENSES, NOT VISION, TO GUIDE THEM WITH PUZZLES

AVOIDS CONSTRUCTION TOYS

Recognizing Vision Problems: Movement Challenges

- Prefer individualized activities
- ▶ Prefer 1:1 activities
- Difficulty throwing and catching balls
- Avoid group sports



Recognizing Vision Problems: Cognitive Challenges

Sense of self

Abstract thinking

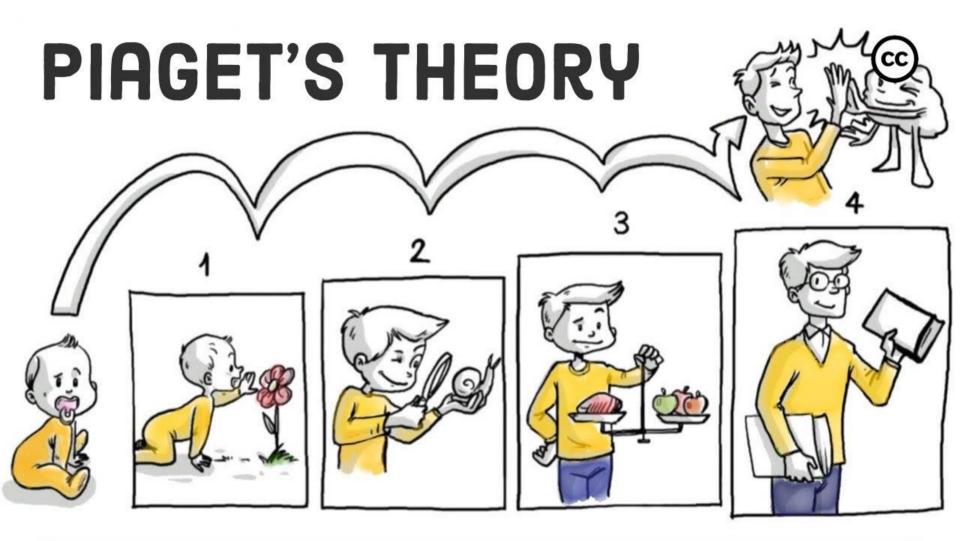
Reflective Thinking

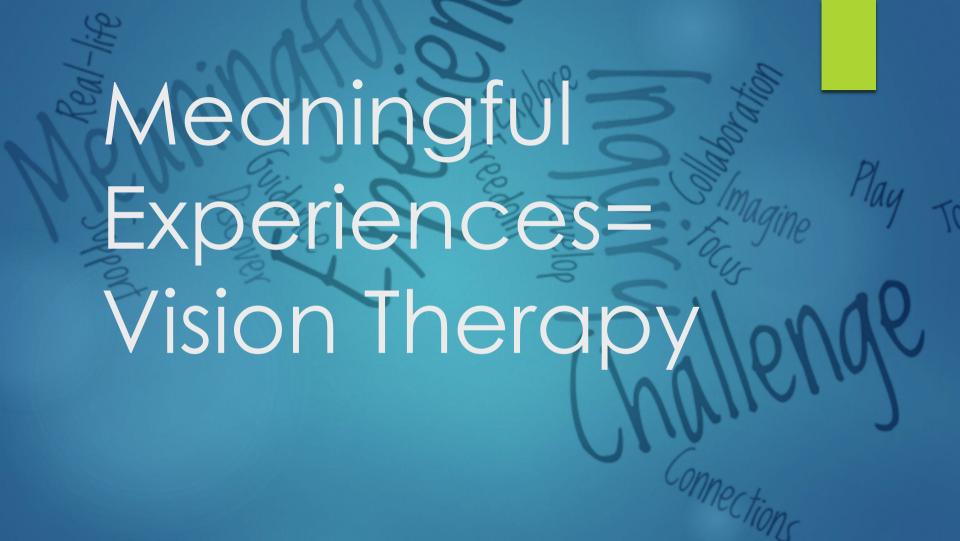


Intellect and Affect: Two Sides of the Same Coin

"Intellect and Affect are two important intertwined aspects of development. Optimal development depends on both growing at the same rate and building on each other."-Harry Wachs







Concept Learning vs. Content Learning: Development Verses Learning-Thinking Goes to School

Content=robotized learning

Memorizing instead of understanding

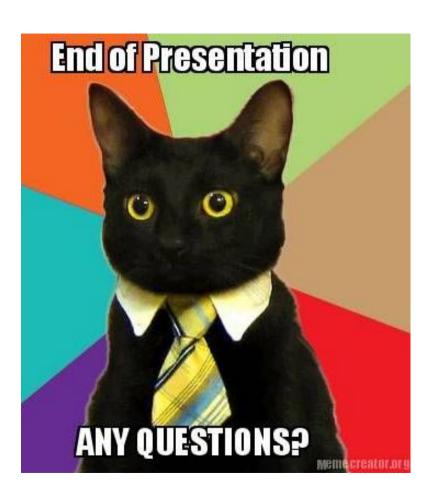
"A child's learning of geographical names would be quite senseless if he(/she) does not have a general comprehension of spatial, historical, and social relations. One should not teach that Boise is the capital of Idaho to a child who confuses the concepts of state and city. A child's learning of mathematical formulas would be quite useless if he(/she) did not have a general comprehension of the number system...intelligent comprehension is the most vital ingredient of the total learning process."



The Goals of Vision Therapy:

Short Term- The patient leaves having worked a problem through and feels good about their success

Long Term- The patient has a fully developed understanding of his/her world and approaches challenges with confidence



Thank You!