

COGNITIVISM

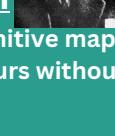
LEARNING THEORIES

THEORY DEFINITION & MECHANISM

- Learning is a change in mental representations.
- Learners actively process information.
- Prior knowledge shapes new understanding.
- Knowledge is stored in organized mental structures (schemas).
- Information moves through encoding → storage → retrieval.

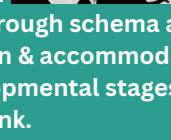


KEY THEORISTS



Edward Tolman

- Learning forms cognitive maps
- Latent learning occurs without reinforcement.



Jean Piaget

- Learning through schema adaptation (assimilation & accommodation).
- Four developmental stages shape how children think.



Gestalt Psychologists

- We perceive patterns as unified wholes.
- Guided by proximity, similarity, closure, and pragnanz.



Lev Vygotsky

- Social interaction drives cognitive development.
- ZPD & scaffolding support tasks beyond current ability.



Atkinson & Shiffrin

- Information Processing Model: sensory → STM → LTM.
- Learning depends on encoding, rehearsal, retrieval.



Jerome Bruner

- Learning is active sense-making.
- Discovery learning and the spiral curriculum build conceptual understanding.

CORE ASSUMPTIONS

1. Learning requires connecting new ideas to prior knowledge.
2. Learners interpret and organize information actively.
3. Cognitive conflict drives schema change.
4. Memory involves multiple systems (sensory, working, long-term).
5. Knowledge becomes durable when deeply processed.
6. Social and developmental factors influence cognition.

KEY PRINCIPLES



Complete Guide with Principles, Examples & Templates (2025)

- New ideas link to existing knowledge.
- Learners actively organize and interpret information.
- Cognitive conflict prompts deeper understanding.
- Memory improves with rehearsal, organization, and meaning.
- Deep processing strengthens retention.

KEY TERMS

5. Retrieval

Accessing stored information when needed.

6. Working Memory

Short-term holding space for active processing.

7. Long-Term Memory

Durable store for consolidated knowledge.

8. Metacognition

Awareness and regulation of one's thinking.

9. Cognitive Load

Mental effort required to process information

INSTRUCTIONAL IMPLICATIONS

Start from what learners already know

Use quick questions, simple examples, or a short review to help them connect new ideas to familiar ones.

Combine visuals, explanations, hands-on activities, and spaced practice to help information stick.

Support memory by using different ways of learning

Help learners organize information clearly

Provide outlines, break content into smaller parts, or use charts and visuals to make things easier to follow.

Ask them to explain ideas, give examples, compare concepts, or summarize in their own words.

Encourage learners to think more deeply

Use comparisons or surprises to spark thinking

Show a contrast or something unexpected to encourage learners to rethink their ideas.

Use discussion, peer work, guiding questions, and helpful hints to move their thinking forward.

Let learners learn through interaction and support