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Exploring Jean Piaget's Learning Theory



Jean Piaget Learning Theory of
Cognitive Development

“How”

Jean Piaget Learning Theory of Cognitive Development

"Theories of cognitive development"

Theories of cognitive development are frameworks that explain how individuals acquire and organize knowledge, understandings, and mental abilities as they grow and mature. These theories aim to elucidate the complex processes underlying human cognition from infancy through adulthood. One of the most prominent theories in this field is Jean Piaget's theory, which speculates that children progress through distinct stages of cognitive development, marked by shifts in their understanding of the world and their ability to reason abstractly. Piaget's stages—sensorimotor, preoperational, concrete operational, and formal operational—outline the gradual development of cognitive abilities such as object permanence, conservation, and hypothetical reasoning. Lev Vygotsky's sociocultural theory emphasizes the role of social interaction and cultural context in cognitive development. Vygotsky proposed that learning is a collaborative process facilitated by interactions with more knowledgeable others, leading to the internalization of cultural tools and concepts. Socio-cognitive theory offers additional perspectives on cognitive development, focusing on aspects like memory, attention, problem-solving, and the influence of social factors. These theories collectively contribute to our understanding of how individuals perceive, interpret, and make sense of the world around them as they progress through various stages of cognitive growth.

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“Interesting and Amazing facts about Piaget's Learning Theory”

Piaget's Learning Theory, developed by Swiss psychologist Jean Piaget, is full of fascinating insights **into how children learn and develop**. One amazing fact is that Piaget discovered that children think in qualitatively different ways at different stages of their development, which led to his famous stages of cognitive development: sensorimotor, preoperational, concrete operational, and formal operational. Each stage represents a different way of thinking and understanding the world.

Piaget's concept of "schemas" are mental models that children use to understand and interact with their environment. When children encounter new experiences, they either assimilate these experiences into existing schemas or accommodate their schemas to include new information, showcasing a dynamic process of learning and adaptation.

Piaget conducted ingenious experiments to reveal how children's thinking evolves. Piaget conservation tasks demonstrated that young children in the preoperational stage often don't understand that quantity remains the same despite changes in shape or appearance, a realization that only comes in the concrete operational stage.

Piaget emphasized the importance of play in learning, arguing that through play, children explore, experiment, and understand the world around them. His theory has had a profound impact on education, encouraging a shift towards more interactive, child-centered learning approaches that recognize the active role of the learner in the process of gaining knowledge. These insights into the nature of cognitive development continue to influence educational practices and our understanding of how children learn.

20 “Interesting and Amazing facts about Piaget's Learning Theory” for the teachers

1. **Developmental Stages:** Piaget identified four stages of cognitive development—sensorimotor, preoperational, concrete operational, and formal operational. Each stage represents a different type of thinking and understanding, which progresses as children grow.
2. **Schema Theory:** Schemas are mental frameworks that help children organize and interpret information. They are the building blocks of knowledge, allowing children to process new experiences and learn.
3. **Assimilation and Accommodation:** Learning occurs through two complementary processes. Assimilation is when children incorporate new information into existing schemas. Accommodation is when children modify their schemas to incorporate new information.
4. **Egocentrism in Children:** Children are egocentric in the preoperational stage. They find it challenging to see things from perspectives other than their own, which affects their social interactions and understanding of the world.
5. **Object Permanence:** A key milestone in the sensorimotor stage is developing object permanence—the understanding that objects continue to exist even when they cannot be seen or heard. This development marks a significant shift in cognitive abilities.
6. **Conservation Tasks:** Piaget's experiments revealed that children in the preoperational stage struggle with conservation tasks i.e. they might think that a tall, narrow glass holds more liquid than a short, wide one, even if both contain the same amount.

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7. **Concrete Thinking:** Children begin to think logically about concrete events during the concrete operational stage. They can perform operations on objects and events but struggle with abstract concepts and hypothetical situations.
8. **Formal Operational Stage:** The formal operational stage, starting around age 12, is characterized by the ability to think abstractly, logically, and systematically. Adolescents can solve hypothetical problems and use deductive reasoning.
9. **Active Learning:** Piaget emphasized that children learn best through active engagement and exploration. This means hands-on activities and real-life experiences are crucial for cognitive development.
10. **Role of Play:** Play is a vital component of learning in Piaget's theory. Through play, children experiment with different roles, scenarios, and outcomes, which helps them understand the world and develop cognitive skills.
11. **Discovery Learning:** Piaget's theory supports discovery learning, where students learn through exploration and problem-solving, rather than through direct instruction. This approach encourages curiosity and independent thinking.
12. **Stages Are Universal:** Piaget proposed that the stages of cognitive development are universal, meaning they occur in the same order across different cultures and environments, although the age at which children reach each stage can vary.
13. **Peer Interaction:** Interaction with peers is crucial for cognitive development. Children encounter different perspectives and ideas through discussions and cooperative activities, which stimulates cognitive growth and understanding.
14. **Cognitive Conflict:** Encountering conflicting information or ideas—cognitive conflict—prompts children to question their understanding and adjust their thinking, leading to cognitive development and deeper understanding.
15. **Constructivism:** Piaget's theory is foundational to constructivist education. Constructivism suggests that learners actively construct their own knowledge through experiences and interactions with the world.
16. **Individual Differences:** While Piaget's stages are universal, he acknowledged that children progress through them at different rates. Teachers should consider these individual differences when planning lessons and activities.
17. **Qualitative Changes:** Piaget emphasized that cognitive development involves qualitative changes in thinking, not just quantitative increases in knowledge. Each stage reflects a fundamentally different way of understanding the world.
18. **Educational Implications:** Piaget's theory has influenced educational practices to focus more on active, student-centered learning. Classrooms are designed to encourage exploration, discovery, and hands-on activities.
19. **Developmentally Appropriate Practice:** Piaget's insights encourage the use of teaching methods that match children's developmental stages. This means providing learning experiences that are suitable for their current level of cognitive development.
20. **Influence on Modern Education:** Piaget's work has had a lasting impact on modern education. His theories have shaped curriculum design, instructional methods, and our understanding of child development, promoting an educational approach that respects and nurtures the natural progression of cognitive growth.

Importance and Benefits in the 21st Century

Piaget's Learning Theory remains highly relevant and beneficial in the 21st-century educational landscape. Its emphasis on active learning, discovery, and developmental appropriateness match perfectly with contemporary educational goals that prioritize critical thinking, problem-solving, and lifelong learning skills. Educators can cultivate more

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engaged, motivated, and independent learners by developing environments where students actively construct knowledge through meaningful experiences. I personally believe that understanding the stages of cognitive development allows teachers to customize their instruction to meet the diverse needs of their students, promoting inclusivity and equity in the classroom. Piaget's insights provide a robust framework in a world that is constantly changing and evolving for developing adaptable, creative, and resilient learners, who are well-prepared to navigate the complexities of modern life.

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Jean Piaget's theory of cognitive development is like a roadmap for how kids learn and grow. Have you imagined a little explorer wandering through different stages of understanding the world around them? Piaget believed that children actively construct their understanding through experiences, like playing and exploring. He divided their journey into four main stages: the sensorimotor stage (0-2 years), where babies learn through senses and actions; the preoperational stage (2-7 years), where kids start using symbols like words and pictures to represent things; the concrete operational stage (7-11 years), where they begin to think logically about concrete events; and finally, the formal operational stage (12 years and up), where they can think abstractly and solve complex problems. Piaget's theory helps us understand how children's thinking changes as they grow, providing insights into how we can support their learning along the way.

Nine Key Points of Jean Piaget Learning Theory

Jean Piaget's learning theory is known as Piaget's theory of cognitive development, focuses on the development of children's thinking processes as they grow and interact with their environment.

Jean Piaget's theory of cognitive development is basically about how kids learn and understand things as they grow up. Piaget said that children learn by exploring and playing. He divided their learning journey into four parts: when they're babies, they learn by touching and moving things around; when they're a bit older, they start using words and pictures to understand the world; as they get even older, they start thinking more logically about things they can see and touch; and finally, when they're teenagers, they can think about abstract ideas and solve tricky problems. Piaget's theory helps us understand how kids' brains develop and how we can help them learn better.

Constructivism: Piaget's theory is based on the constructivist perspective, which suggests that children actively construct their knowledge and understanding of the world through their interactions with it. According to Piaget, learners are not passive recipients of information but active participants in the learning process.

Stages of Cognitive Development: Piaget proposed that children progress through four stages of cognitive development: the sensorimotor stage (0-2 years), the preoperational stage (2-7 years), the concrete operational stage (7-11 years), and the formal operational stage (11 years and beyond). Each stage is characterized by specific cognitive abilities and ways of thinking.

Schemas: Piaget introduced the concept of schemas, which are mental frameworks or structures that individuals use to organize and make sense of their experiences. Schemas develop and adapt as children interact with their environment and acquire new knowledge. Assimilation (fitting new information into existing schemas) and accommodation (modifying existing schemas to incorporate new information) are key processes in Piaget's theory.

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Equilibration: Piaget proposed that cognitive development occurs through a process of equilibration, which involves a balance between assimilation and accommodation. When new information is encountered, there may be a state of cognitive disequilibrium, prompting the individual to modify their existing schemas to accommodate the new information and restore equilibrium.

Conservation: Piaget conducted studies on conservation, which refers to the understanding that certain properties of objects (e.g., quantity, length, volume) remain the same despite changes in their physical appearance. He found that children in the preoperational stage often struggle with conservation tasks due to their inability to mentally reverse actions and think operationally.

Egocentrism: Piaget observed that children in the preoperational stage exhibit egocentric thinking, meaning they have difficulty understanding that others may have different perspectives or beliefs from their own. They tend to view the world from their own subjective viewpoint.

Centration and Decentration: Piaget described centration as the tendency for young children to focus on only one aspect of a situation or object, ignoring other relevant aspects. Decentration, on the other hand, involves the ability to consider multiple dimensions or perspectives simultaneously.

Discovery Learning: Piaget emphasized the importance of discovery learning, where children actively explore and manipulate their environment to construct their own knowledge. He believed that hands-on experiences and active engagement with the physical world are vital for cognitive development.

Social Interaction and Language: While Piaget's theory primarily focuses on individual cognitive development, he acknowledged the role of social interaction and language in shaping children's thinking. According to Piaget, social interaction with peers and adults helps children refine their thinking, acquire new perspectives, and advance their cognitive abilities.

It's important to note that Piaget's theory has been influential in shaping our understanding of cognitive development, but it also has its limitations and has been subject to criticism and further refinement by subsequent researchers. Piaget's theory continues to provide valuable insights into the cognitive processes involved in children's learning and development.

Ten Classroom Strategies for implementing Jean Piaget Learning Theory

Characteristics feature of Jean Piaget Learning Theory of Cognitive Development

Jean Piaget's theory of cognitive development is distinguished by several key characteristics that illuminate the process of how children learn and evolve intellectually. Individuals use to organize and interpret information about the world is the notion of schemas, and mental frameworks. These schemas evolve over time through two processes: assimilation and accommodation. Assimilation occurs when new information is incorporated into existing schemas, while accommodation involves modifying existing schemas to fit new information. A child who has a schema for "birds" may initially classify all flying animals as birds, however, as she encounters bats and learn about their unique characteristics, they accommodate this new information by adjusting their bird schema to exclude bats, thereby refining their understanding of the category.

Piaget's theory emphasizes the importance of stages in cognitive development. He proposed four distinct stages: the sensorimotor stage, the preoperational stage, the concrete operational stage, and the formal operational stage. Each stage is characterized by specific cognitive abilities and limitations i.e. in the preoperational stage, children develop symbolic thinking but struggle with understanding conservation, the concept that certain properties of objects remain the same despite changes in appearance. These stages provide a framework for understanding the typical progression of cognitive abilities in children and underscore Piaget's belief that cognitive development unfolds in a systematic and sequential manner.

We should understand that implementing Jean Piaget's learning theory in the classroom involves creating an environment that supports children's active engagement in constructing their knowledge and promoting cognitive development.

Ten strategies for classroom implementation:

Hands-on Learning: Teacher provides students with opportunities for hands-on exploration and experimentation. Teacher uses manipulatives, educational materials, and real-life examples to help students interact with concepts and construct their understanding.

Problem-Solving Activities: Teacher designs activities that encourage students to solve problems and think critically. Educator presents open-ended questions or scenarios that require students to apply their existing knowledge and develop new strategies to find solutions.

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Scaffolding: Teacher offers appropriate levels of support and guidance to students based on their current cognitive abilities. Gradually, teacher withdraws support as students gain more competence in a particular area. This gradual release of responsibility helps students develop independence in their learning.

Active Discussions: Teacher encourages student-led discussions where she can share her ideas, perspectives, and reasoning. Teacher allows students to engage in debates, ask questions, and challenge one another's thinking. This adopts their cognitive development by promoting reflection and the exploration of different viewpoints.

Reflective Activities: Teacher incorporates opportunities for students to reflect on their learning experiences. Teacher provides students journal, create concept maps, or participate in group discussions where they can articulate what they have learned, identify areas of confusion, and make connections to previous knowledge.

Individualized Learning: Teacher recognizes and respects individual differences among students. Teacher provides opportunities for students to work at their own pace and explore topics of interest. Teacher offers varied learning materials and resources to accommodate different learning styles and preferences.

Cooperative Learning: Teacher encourages collaborative activities where students can work together in groups to solve problems or complete projects. This promotes social interaction, peer learning, and the sharing of perspectives, which are all important aspects of cognitive development.

Metacognitive Reflection: Educator teaches students about metacognition, which involves awareness and control of one's own thinking processes. Teacher helps students develop metacognitive strategies such as setting goals, monitoring their progress, and reflecting on their learning. This nurtures students' ability to think about their own thinking and become more independent learners.

Assessments for Understanding: Teacher uses a variety of formative and summative assessments that focus on understanding rather than rote memorization. Teacher assesses students' ability to apply concepts, think critically, and explain their reasoning. This helps you measure their cognitive development and provides feedback for further instruction.

Flexibility and Adaptability: Teacher recognizes that children progress through Piaget's stages at their own pace. Teacher should be flexible and adapt instruction to meet individual students' needs. Teacher provides additional challenges for students who are ready to move to more advanced concepts and offer support to those who require additional assistance.

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In fact, Piaget's theory provides a framework, but it is important to consider other learning theories and research findings when implementing instructional strategies. The goal is to create a rich and supportive learning environment that stimulates students' cognitive development and facilitates their construction of knowledge.

How to Implement Piaget's Learning Theory in the Classroom

Promoting Piaget's learning theory in the classroom involves creating a supportive environment that aligns with Piaget's principles of cognitive development.

Importance and benefit of implementing Piaget's Learning Theory in the classroom

Piaget's Learning Theory in the classroom is essential for nurturing holistic development among students. Educators can recognize the significance of active engagement and hands-on experiences in learning by incorporating Piaget's ideas into teaching practices. Piaget emphasized the importance of allowing students to construct their understanding of the world through exploration and interaction. This approach promotes critical thinking skills and encourages students to question, analyze, and problem-solve independently. Educators empower students to become active participants in their learning journey when she creates a classroom environment that integrates with Piaget's theory. In fact, it leads to deeper comprehension and long-term retention of knowledge.

When a teacher integrates Piaget's Learning Theory into the classroom setting, it benefits students by catering to their individual developmental needs. Piaget's stages of cognitive development highlight that learners progress through distinct phases, each characterized by unique ways of thinking and understanding. Educators can customize their teaching strategies to suit students' cognitive abilities by acknowledging these developmental stages. She ensures that instruction is neither too advanced nor too simplistic. This approach promotes inclusivity and accommodates diverse learning styles, allowing students to learn at their own pace and build upon their existing knowledge. Piaget's Learning Theory promotes a student-centered approach to education, where the focus is not only on academic achievement but also on nurturing the holistic growth of each learner.

Ten best strategies to promote Piaget's learning theory:

Ten Strategies to Promote Piaget's Learning Theory in the Classroom

1. **Constructivist Approach:** Piaget's theory emphasizes the importance of constructing knowledge through active engagement and interaction with the environment. Teacher designs learning experiences that encourage students to explore, experiment, and discover concepts on their own. Teacher should provide hands-on activities, problem-solving tasks, and open-ended questions to stimulate their thinking.
2. **Developmentally Appropriate Tasks:** Teacher should adapt her teaching methods and materials to match the cognitive abilities and developmental stages of her students. She should consider students current level of understanding and provide appropriate challenges to promote their intellectual growth. Teacher should use Piaget's stages of cognitive development (sensorimotor, preoperational, concrete operational, and formal operational) as a guide.

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3. **Scaffolding:** Teacher should provide support and guidance to students as they engage in challenging tasks. Gradually, teacher should reduce the level of assistance as student's understanding and skills develop. Teacher offers prompts, hints, and examples to facilitate their problem-solving processes, but also encourage independent thinking and problem-solving.
4. **Peer Collaboration:** Teacher should encourage students to work together in small groups or pairs. According to Piaget, "collaboration promotes social interaction, which is important for cognitive development. Students can exchange ideas, challenge each other's thinking, and build their understanding through discussion and negotiation.
5. **Reflective Thinking:** Teacher should develop metacognitive skills by incorporating reflection and self-assessment into the learning process. Teacher should encourage students to think about their own thinking, evaluate their understanding, and identify areas for improvement. Teacher should use techniques like journaling, group discussions, and self-assessment tools to promote metacognition.
6. **Concrete Manipulatives:** Piaget emphasized the importance of hands-on experiences for learning. Teacher provides students with concrete manipulatives and materials that they can physically manipulate to explore abstract concepts i.e. use blocks, counters, or models to help students understand mathematical concepts or scientific principles.
7. **Individualized Instruction:** Teacher recognizes that each student progresses at their own pace and may be in different stages of cognitive development. Differentiate your instruction to meet individual needs, interests, and abilities. Teacher provides opportunities for students to explore topics of personal relevance and challenge them to extend their thinking.
8. **Encourage Questions and Curiosity:** Piaget emphasized the importance of curiosity and questioning in the learning process. Create a classroom culture that values curiosity and encourages students to ask questions. Teacher should develop a safe and non-judgmental environment where students feel comfortable expressing their ideas and exploring new concepts.
9. **Assessments for Understanding:** Teacher should use formative assessments that focus on understanding rather than rote memorization. Teacher should provide opportunities for students to demonstrate their understanding through projects, presentations, discussions, and real-world applications. Assessments should be integrated with Piaget's focus on active construction of knowledge.
10. **Flexibility and Adaptation:** Teacher should be flexible and willing to adapt her teaching strategies based on students' needs and feedback. She should continuously monitor and assess student progress, adjusting her instructional approaches as necessary to support their cognitive development.

Teacher can effectively promote Piaget's learning theory in the classroom and create a stimulating and supportive environment for his students' cognitive growth and development.

Classroom examples of Piaget's Learning Theory

Piaget's Learning Theory is used in classrooms, where students get to explore and discover things on their own. i.e. Instead of just listening, they can experiment and investigate. Let's say in a math class, instead of just memorizing formulas, students should figure out solutions to problems by trying different approaches. This way, they're actively involved in learning, which helps them understand better. Teachers might encourage teamwork, so students can learn from each other. This approach lets students learn at their own pace and share ideas, which is an important part of Piaget's theory about how children learn and develop.

We might see students doing hands-on activities and experiments to learn new things in a classroom applying Piaget's Learning Theory like in a science class, instead of just listening to a teacher talk about how plants grow, students might plant seeds themselves and observe the process firsthand. This hands-on experience helps them understand the concept better because they're actively involved in their learning. Teacher should also encourage students to work together in groups to solve problems or discuss ideas. In fact, students can learn from each other and share different perspectives, which is a key part of Piaget's theory about how kids learn and grow.

Specific examples of how Piaget's learning theory can be applied in the classroom

1. Sensorimotor Stage (0-2 years):

- a. Teacher can provide infants and toddlers with age-appropriate toys and objects that encourage exploration and sensory stimulation, such as soft toys, rattles, and textured materials.
- b. Teacher can create safe and stimulating environments that allow infants and toddlers to actively engage with their surroundings through crawling, grasping, and manipulating objects.

2. Preoperational Stage (2-7 years):

- a. Teacher can use concrete manipulatives, such as blocks, counting cubes, or fraction tiles, to help students understand mathematical concepts like numbers, shapes, and measurements.
- b. Teacher can engage students in pretend play and role-playing activities, allowing them to use their imagination and develop symbolic thinking skills.
- c. Teacher can provide opportunities for students to engage in hands-on activities, such as experiments or art projects, where they can explore and express their ideas creatively.

3. Concrete Operational Stage (7-11 years):

- a. Teacher can use manipulatives and visual aids to help students understand abstract concepts in subjects like mathematics or science

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i.e. using manipulatives like base-ten blocks for understanding place value or using models to demonstrate scientific processes.

- b. Teacher can encourage group discussions and cooperative learning activities where students can explain their thinking, debate ideas, and learn from one another.
- c. Teacher can incorporate real-life problem-solving tasks that require students to apply logical thinking and operational strategies to find solutions.

4. Formal Operational Stage (11 years and beyond):

- a. Teacher can engage students in higher-order thinking tasks that require abstract reasoning and hypothetical thinking, such as analyzing complex literature, conducting scientific investigations, or solving open-ended problems.
- b. Teacher can encourage students to think critically and evaluate arguments or evidence to develop their own opinions and perspectives.
- c. Teacher can provide opportunities for independent research projects or presentations where students can explore their interests and demonstrate their ability to think systematically and analytically.

Students' progress through Piaget's stages at different rates, so it's important to adapt these examples based on the developmental level of your students and their individual needs and abilities.

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Key Words

Importance of Piaget's theory in education, educational implications of piaget's theory, five educational implications of piaget's cognitive theory, what is piaget's theory of cognitive development, piaget theory of cognitive development, Piaget's Theory and Stages of Cognitive Development, Theory of cognitive development By Jean Piaget, Piaget's Theory Of Cognitive Development, Educational Implications of Piaget's Theory, Jean Piaget Educational Implications, Piaget's theory of education, Theories of cognitive development,

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Grow Together Glow Together

**Regards
Rajeev Ranjan
School Education**

**“Let knowledge grow from more to more.”
Alfred Tennyson, “In Memoriam”, Prologue, line 25**

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