

## HISTORY OF PEDAGOGY: HISTORICAL FOUNDATIONS OF CONSTRUCTIVIST PEDAGOGY

Dr. Avi Abner\*

Burgas State University "Prof. Dr. Assen Zlatarov", Republic of Bulgaria

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**Abstract:** The historical development of constructivist pedagogy is closely connected with broader changes in philosophical and educational thought concerning the nature of knowledge and learning. Over time, the understanding gradually emerged that learning is not limited to the passive reception of information, but involves the learner's own activity, experience, and interpretation of the world. Certain philosophical and pedagogical ideas compatible with later constructivist interpretations can already be identified in ancient philosophy and medieval thought. The views of Plato and Aristotle may be regarded as important historical preconditions for later learner-centered and constructivist-oriented educational theories. Increasing attention was directed toward experience, observation, personal development, and the learner's participation in the educational process. Particular importance for the later development of constructivism belongs to Dewey, Piaget, and Vygotsky, whose theories provided a more systematic explanation of learning as an active and socially mediated process. Their ideas played a major role in changing traditional views of education and in establishing new understandings of the relationship between teaching, experience, and cognition. Viewed in historical perspective, constructivist pedagogy appears as the result of a long process of philosophical and pedagogical development rather than a directly continuous tradition originating in Antiquity. The evolution of these ideas reflects broader changes in the understanding of knowledge, the learner, and the purpose of education itself.

**Keywords:** *Constructivist pedagogy; Constructivism; History of education; Learning theories; Active learning; Pedagogical thought; Cognitive development; Educational philosophy.*

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### INTRODUCTION

Constructivist pedagogy is most commonly associated with twentieth century educational theory. Its development is usually linked to the work of Jean Piaget, Lev Vygotsky, and John Dewey, whose ideas significantly reshaped the understanding of learning and the role of the learner within the educational process. Such an interpretation, however, does not fully explain why long before the term "constructivism" itself entered pedagogical discourse, the history of educational thought had already produced ideas closely connected with the view that knowledge emerges through personal experience, reflection, observation, and active intellectual engagement. Across different historical periods, the question of how human beings arrive at knowledge has been approached in different ways. Ancient philosophy explored the relationship between sensory experience and reason. Medieval thought drew attention to the role of the teacher and the authority of language. During the Enlightenment, increasing emphasis was placed upon the learner's activity and the importance of observation in education. Later, the pedagogical views of Comenius, Rousseau, and Pestalozzi gradually transformed prevailing conceptions of the educational process by directing attention toward the child, lived experience, and independent activity. It is within this broader historical continuity that some of the intellectual preconditions of constructivist pedagogy may be identified. The intellectual foundations that later influenced constructivist pedagogy did not emerge suddenly, nor were they formed as a complete theory

within the limits of a single century. They developed gradually through a range of philosophical and pedagogical ideas that, to varying degrees, challenged the mechanical transmission of knowledge. Tafrova-Grigorova observes that certain philosophical ideas that later influenced constructivist pedagogy can be traced back to the writings of ancient philosophers and medieval thinkers, while constructivism as a theory of learning acquired a more clearly defined form during the twentieth century through the works of Piaget, Vygotsky, and Dewey [1]. For this reason, constructivism should not be regarded merely as a contemporary educational model associated with project-based work, collaborative activities, or interactive methods. Rather, it represents the outcome of a long historical development within pedagogical thought, through which the understanding gradually emerged that the learner is not a passive recipient of ready-made content, but an active participant in the construction of knowledge. It is this historical transformation in conceptions of learning and cognition that laid the foundations of constructivist pedagogy.

### EXPOSITION

Constructivist pedagogy is usually associated with the educational theories of the twentieth century and with the names of Piaget, Vygotsky, and Dewey. Such a view is justified to the extent that these authors formulated some of the most influential ideas concerning learning, cognition, and the active role of the learner.

At the same time, limiting constructivism only to twentieth century theory would overlook the much broader historical development of ideas about knowledge and education from which it emerged. Questions concerning the nature of knowledge and the ways in which human beings come to understand the world appeared long before constructivism became established as a pedagogical theory. In ancient philosophy, particular importance was attached to the relation between sensory experience and rational thought. Medieval educational thinking placed stronger emphasis on authority, interpretation, and the role of the teacher in transmitting knowledge. Later developments during the Renaissance and the Enlightenment gradually shifted attention toward observation, experience, and the learner's own activity. Although these ideas cannot yet be described as constructivism in the modern sense, they gradually changed the way educators understood learning and the role of the learner. Increasing attention was given to personal experience, independent activity, and participation in the educational process. This tendency can be observed in the pedagogical views of Comenius, Rousseau, and Pestalozzi, who rejected mechanical memorization and argued that education should be connected with experience, observation, and the active involvement of the learner. In this sense, the historical roots of constructivist pedagogy may be sought not only in contemporary educational psychology, but also in the broader historical transformation of ideas about learning and human cognition [2]. Modern constructivist theory developed these earlier ideas further by understanding knowledge not as the passive reception of ready-made truths, but as a process in which meaning is actively constructed through experience, reflection, and social interaction. Contemporary learning theories likewise describe learning as an active interpretative process shaped by previous knowledge and cognitive activity [3]; [4]. Seen in this broader historical context, constructivism appears not as an isolated modern approach, but as the result of a long evolution in pedagogical and philosophical thought. Certain philosophical assumptions later associated with constructivist interpretations of learning can already be identified in ancient philosophy. In Plato's thought, the process of knowledge is connected with the movement of the mind toward truth and with the philosophical interpretation of the world. Although his philosophy is oriented toward the world of ideas, it clearly contains the assumption that knowledge is attained through active intellectual effort rather than through passive reception of information [5]. Aristotle developed a different conception of knowledge by placing much stronger emphasis on sensory experience. In his view, thinking cannot be separated from perception and interaction with reality. Knowledge emerges through a gradual movement from sensation to concepts and logical understanding [6]. These thinkers should not be regarded as direct founders of constructivism, but rather as intellectual predecessors whose ideas contributed to later reflections on active cognition and learning. Although medieval pedagogy is often associated mainly with dogmatic instruction and the authority of religious knowledge, this period also produced ideas related to inner understanding and the meaning of learning. St. Augustine emphasized the importance of inner understanding and interpretation in the process of learning [7]. Similar ideas can be found in the work of Thomas Aquinas, who acknowledged the importance of sensory experience and reason in the formation of knowledge [8]. Even though these ideas developed within the framework of religious philosophy, they gradually prepared the transition toward a more active understanding of cognition. A major rethinking of education took place during the Renaissance

and the Enlightenment. The development of science and humanist thought gradually changed existing views of human beings and their cognitive capacities. In this context, pedagogy slowly moved away from the scholastic model of mechanical memorization and turned its attention toward observation, practice, and the learner's activity. An especially important role in this transformation belongs to Johann Amos Comenius. In his pedagogical works, he argued that education should correspond to the nature of the child and to the way human beings perceive the world. Instead of mechanical accumulation of facts, Comenius emphasized visualization, sequence, and the active participation of students in the learning process [9]. The significance of his ideas does not lie only in particular methodological principles. More importantly, he changed the very logic of education by gradually shifting the center of the educational process from the subject matter itself toward the learner's cognitive activity. This reconsideration of education continued throughout the eighteenth and nineteenth centuries. In the work of Jean-Jacques Rousseau, the child was no longer viewed as a passive object of education, but as an individual with a distinct rhythm of development and personal characteristics. In *Emile, or On Education*, Rousseau argued that learning should arise from the child's natural experience and interaction with the world rather than from the forced acquisition of ready-made knowledge [10]. A similar line of thought was developed by Johann Heinrich Pestalozzi, who placed self-activity, practical work, and the learner's personal experience at the center of the educational process. According to Pestalozzi, genuine education cannot be achieved through mechanical memorization, but through active engagement and the gradual development of the child's abilities [11]. Through these ideas, pedagogical thought increasingly moved away from the traditional authoritarian model of instruction. At the beginning of the twentieth century, the idea of active learning received a more systematic theoretical explanation. John Dewey viewed education as a social process connected with real life, practice, and participation in the community. In his view, learning becomes meaningful when students actively participate in problem-solving and construct knowledge through experience [12]. Dewey's importance lies not only in the idea of "learning by doing," but also in the fact that he transformed the understanding of the school itself from a place for reproducing information into an environment for social interaction and intellectual development. These ideas are widely regarded as important influences on later constructivist theory. In the work of Jean Piaget, cognitive constructivism acquired a systematic psychological foundation through research on cognitive development. Piaget understood learning as a process in which the child actively organizes and restructures cognitive experience [13]. New knowledge is not passively received but constructed through interaction between existing cognitive structures and new situations. Here, one of the central ideas of cognitive constructivism becomes fully articulated: the understanding that learning is a process of active transformation of knowledge. Lev Vygotsky further developed these ideas through a socially oriented theory of learning. According to Vygotsky, cognitive development cannot be explained solely through individual mental activity, because thinking develops through communication, cooperation, and participation in a cultural environment [14]. Particular importance belongs to the concept of the zone of proximal development, through which Vygotsky demonstrated how learning supports development through interaction with more competent participants in the educational process. During the second half of the twentieth century and the beginning of the twenty-first century,

constructivism gradually established itself as one of the most influential pedagogical approaches. Contemporary educational research increasingly emphasizes the importance of pedagogical interaction and the teacher’s communicative role within the learning process. In this context, the effectiveness of education depends not only on instructional methods, but also on the character of interpersonal relations established in the classroom. Kaloyanova points out that modern educational environments require teachers to move beyond rigid authoritarian roles and to develop more flexible, cooperative, and adaptive forms of pedagogical communication, oriented toward students’ participation and interaction [15]. This tendency corresponds closely with constructivist views of learning, which place the learner’s activity and social engagement at the center of the educational process. Contemporary interpretations of constructivist pedagogy increasingly connect learning with project-based and experience-oriented educational models. In this context, Kaloyanova defines project-based learning as an approach grounded in the constructivist philosophy of education and closely related to learning through activity, social interaction, and problem-solving situations [16]. According to her, educational environments based on projects stimulate students’ curiosity,

independent thinking, cooperation, and creative engagement in the learning process. Constructivist principles began to be applied in project-based learning, collaborative learning, problem-based instruction, and digital educational environments. Contemporary technologies create new opportunities for students to participate actively in the construction of knowledge through inquiry, communication, and participation in learning communities [17]. At the same time, constructivism has also been criticized. Some researchers argue that excessive emphasis on independent discovery may create difficulties in the acquisition of complex concepts and academic content [18]. Despite such criticism, constructivist pedagogy continues to exert considerable influence on contemporary education because it places at the center of learning the activity of the learner, the development of critical thinking, and the ability to interpret knowledge independently. Tracing the historical development of pedagogical thought makes it clear that constructivist pedagogy did not appear all at once as a separate theory. It emerged gradually through centuries of philosophical, psychological, and educational reflection, during which learning came to be understood as an active process of making meaning.

**Fig. 1.** Historical evolution of key ideas related to Constructivist Pedagogy

Historical period	Key thinkers	Main pedagogical ideas	Relation to Constructivism
Classical Antiquity (4th century BCE)	Plato, Aristotle	<i>Dialectical inquiry (Plato), empirical observation and logical reasoning (Aristotle)</i>	<i>Philosophical foundations for later theories of active learning and knowledge construction</i>
Middle Ages (5th–15th century)	St. Augustine, Thomas Aquinas	<i>Scholastic method, religious and moral education, synthesis of faith and reason</i>	<i>Limited direct relation; contributed to traditions of reasoning and intellectual inquiry</i>
Early Modern Period (17th century)	Jan Amos Comenius	<i>Sensory learning, education according to nature, gradual development, universal education</i>	<i>Important precursor of experiential and learner-centered learning</i>
Enlightenment (18th century)	Jean-Jacques Rousseau	<i>Natural education, developmental stages, learning through direct experience</i>	<i>Strong precursor of child-centered and experiential education</i>
Late Enlightenment and Early Modern Pedagogy (18th–19th century)	Johann Heinrich Pestalozzi, Friedrich Fröbel	<i>Learning through activity, object teaching, holistic child development, educational play</i>	<i>Major influence on developmental and active learning approaches</i>
Progressive Education (late 19th – early 20th century)	John Dewey	<i>Learning by doing, reflective thinking, democratic education</i>	<i>Direct precursor of modern constructivist pedagogy</i>
20th Century Cognitive Constructivism	Jean Piaget	<i>Cognitive development stages, schema construction, discovery learning</i>	<i>Foundation of cognitive constructivism</i>
20th Century Sociocultural Theory	Lev Vygotsky	<i>Social interaction, Zone of Proximal Development (ZPD), scaffolding</i>	<i>Foundation of social constructivism</i>
Late 20th Century Constructivist Approaches	Jerome Bruner, Ernst von Glasersfeld	<i>Discovery learning, spiral curriculum, radical constructivism</i>	<i>Expansion and diversification of constructivist theory</i>
Contemporary Educational Practice (21st century)	Contemporary educational theorists and practitioners	<i>Collaborative learning, inquiry-based learning, project-based learning, digital learning environments</i>	<i>Application of constructivist principles in modern education</i>

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## CONCLUSION

The historical development of constructivist pedagogy shows that the idea of the learner’s active participation in the process of knowledge has deep philosophical and educational roots. Although constructivism took shape as an independent theory only during the twentieth century, many of its underlying ideas can already be found in ancient philosophy, medieval thought, and in the educational views of Comenius, Rousseau, and Pestalozzi. Later, Dewey, Piaget, Vygotsky, and contemporary theorists further developed these ideas and turned them into the foundation of the modern understanding of learning as an active, social, and meaningful process. Constructivist pedagogy remains highly

important for contemporary education because it places the learner at the center of the educational process and understands knowledge as something formed through activity, interaction, and personal experience. In this way, learning is no longer seen as the mechanical reproduction of information, but as a process through which understanding and competencies are gradually developed. Although constructivism as a distinct educational theory emerged primarily during the twentieth century, its development was influenced by a broader historical evolution of philosophical and pedagogical ideas concerning knowledge, experience, and learning.

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