

# **Abstract Thinking Definition Psychology**

## **Abstract Thinking Definition Psychology: A Comprehensive Overview**

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### **What is Abstract Thinking Definition Psychology?**

Abstract thinking, within the context of abstract thinking definition psychology, refers to the ability to understand concepts that are not tied to concrete objects or experiences. It involves manipulating symbols, ideas, and concepts mentally, often without relying on sensory information. This crucial cognitive function underpins higher-order thinking, allowing us to engage in complex problem-solving, creative thinking, and nuanced decision-making. Understanding the abstract thinking definition psychology provides a framework for comprehending how humans process information beyond the literal.

### **Methodologies and Approaches in Studying Abstract Thinking**

Several methodologies are employed to study and assess abstract thinking definition psychology:

1. **Piagetian Tasks:** Jean Piaget's theory of cognitive development significantly shaped our understanding of abstract thinking. His stages of cognitive development highlight the progression from concrete operational thinking (focused on tangible objects and immediate experiences) to formal operational thinking (characterized by abstract reasoning and hypothetical thought). Classic Piagetian tasks, such as the pendulum problem (understanding the factors affecting the swing of a

pendulum) and the three-mountains task (understanding spatial perspectives different from one's own), are used to assess the emergence of abstract reasoning abilities. These tasks, while foundational, often face criticism for their cultural bias and limited scope in capturing the complexity of abstract thinking definition psychology.

2. Psychometric Tests: A range of psychometric tests, like the Raven's Progressive Matrices and the Wechsler Adult Intelligence Scale (WAIS), are designed to measure abstract reasoning abilities. These tests typically involve pattern recognition, analogy completion, and spatial reasoning tasks that demand the ability to extract underlying rules and principles from presented stimuli. They offer quantitative measures of abstract thinking proficiency, valuable for clinical assessment and research, though they may not fully capture the richness of real-world abstract thought.

3. Neuropsychological Assessments: Neuropsychological assessments, often employing brain imaging techniques (fMRI, EEG), offer insights into the neural correlates of abstract thinking. Researchers use these techniques to identify brain regions and networks associated with abstract reasoning, revealing the biological underpinnings of this cognitive function. These studies often investigate the role of the prefrontal cortex and its connections to other brain regions in supporting complex cognitive processes, including those defined in the abstract thinking definition psychology context.

4. Experimental Paradigms: Experimental paradigms, such as those involving analogical reasoning and problem-solving tasks, allow researchers to systematically manipulate variables and explore the cognitive processes involved in abstract thinking. For instance, studies might examine how the complexity of an analogy or the presence of distracting information influences performance. These methodologies offer valuable insights into the mechanisms underlying the ability outlined in the abstract thinking definition psychology framework.

5. Qualitative Methods: Qualitative methods, including interviews and observations, are employed to understand the subjective experiences and strategies individuals use when engaging in abstract thinking. These approaches provide richer, contextualized understanding of how individuals approach abstract problems. Such a nuanced perspective often complements quantitative data obtained through psychometric tests.

## **Theoretical Perspectives on Abstract Thinking**

Several theoretical perspectives inform our understanding of abstract thinking definition psychology:

1. Piaget's Theory: As mentioned earlier, Piaget's stages provide a developmental framework. He proposed that abstract thinking emerges in the formal operational stage (typically around adolescence), marked by hypothetical-deductive reasoning and the ability to consider multiple possibilities.

2. Vygotsky's Sociocultural Theory: Lev Vygotsky emphasized the role of social interaction and cultural tools in cognitive development. He argued that abstract thinking develops through collaborative activities and the internalization of cultural knowledge. The Zone of Proximal Development (ZPD) highlights the importance of scaffolding and guidance from more knowledgeable others in fostering abstract reasoning skills.

3. Information Processing Theories: These theories focus on the cognitive processes involved in abstract thinking, such as working memory capacity, attentional control, and executive functions. They explain abstract thinking as the efficient manipulation of information held in working memory, guided by executive control processes.

## **Assessing and Enhancing Abstract Thinking**

Assessing abstract thinking involves a combination of the methodologies described above. Interventions designed to enhance abstract thinking often focus on:

Providing opportunities for challenging problem-solving: Engaging in activities that require critical thinking, analysis, and synthesis can improve abstract reasoning skills.

Promoting metacognitive awareness: Encouraging individuals to reflect on their own thinking processes can help them refine their approach to abstract tasks.

Utilizing scaffolding and guidance: Providing support and guidance, particularly in the ZPD, can facilitate the development of more advanced abstract thinking skills.

## **Conclusion**

The abstract thinking definition psychology encompasses a multifaceted cognitive ability essential for higher-order thinking and problem-solving. Understanding this ability necessitates employing diverse methodologies and incorporating theoretical perspectives to gain a comprehensive view of its development, assessment, and enhancement. Future research should continue to integrate various methodologies and investigate the interplay of cognitive, social, and cultural factors impacting abstract thinking across the lifespan.

## **FAQs**

1. What are some examples of abstract thinking? Examples include understanding metaphors, formulating hypotheses, engaging in scientific reasoning, creating art, solving complex mathematical problems, and understanding abstract concepts like justice or freedom.

2. How does abstract thinking differ from concrete thinking? Concrete thinking focuses on tangible objects and immediate experiences, while abstract thinking involves manipulating symbols, ideas, and concepts.
3. Is abstract thinking innate or learned? Both nature and nurture play roles. While some capacity for abstract thinking may be innate, it develops significantly through experience, learning, and social interaction.
4. Can abstract thinking be improved? Yes, it can be improved through targeted interventions, educational practices, and engaging in activities that challenge and stimulate abstract reasoning.
5. What are the implications of poor abstract thinking skills? Poor abstract thinking can impact academic performance, professional success, and social functioning. It can also contribute to difficulties in problem-solving and decision-making.
6. How is abstract thinking assessed in children? Piagetian tasks, age-appropriate psychometric tests, and observational methods are used to assess abstract thinking in children.
7. What are the neurological correlates of abstract thinking? Studies suggest that the prefrontal cortex and its interconnected networks play a crucial role in supporting abstract reasoning.
8. How does culture influence abstract thinking? Cultural experiences and learning opportunities shape the development and expression of abstract thinking skills.
9. What are some real-world applications of understanding abstract thinking? Understanding abstract thinking is crucial in education, clinical psychology, and various professions requiring higher-order thinking skills (e.g., science, law, engineering).

## **Related Articles**

1. The Development of Abstract Reasoning in Adolescence: This article explores Piaget's theory in detail and examines the specific cognitive changes associated with the development of abstract thought during adolescence.
2. Assessing Abstract Reasoning: A Review of Psychometric Tests: This article provides a comparative analysis of various psychometric tests used to measure abstract reasoning abilities, highlighting their strengths and limitations.
3. Neurobiological Correlates of Abstract Thought: An fMRI Study: This article presents findings from a neuroimaging study investigating the brain regions involved in abstract reasoning.
4. The Role of Working Memory in Abstract Reasoning: This article explores the relationship between working memory capacity and performance on tasks requiring abstract thought.
5. The Impact of Cultural Background on Abstract Reasoning Skills: This article examines how cultural factors influence the development and expression of abstract reasoning abilities.

6. Interventions to Enhance Abstract Thinking in Children with Learning Disabilities: This article explores strategies and interventions to support the development of abstract reasoning skills in children with specific learning difficulties.
7. Abstract Thinking and Creativity: A Cognitive Neuroscience Perspective: This article explores the connection between abstract thinking and creative abilities, examining their neurological underpinnings.
8. Abstract Reasoning in Problem Solving: A Case Study Approach: This article presents case studies illustrating how individuals approach and solve problems that require abstract reasoning.
9. The Relationship Between Abstract Thinking and Emotional Intelligence: This article explores the potential link between abstract reasoning abilities and the ability to understand and manage emotions.

**abstract thinking definition psychology: Critical Thinking** Tracy Bowell, Gary Kemp, 2002  
A much-needed guide to thinking critically for oneself and how to tell a good argument from a bad one. Includes topical examples from politics, sport, medicine, music, chapter summaries, glossary and exercises.

**abstract thinking definition psychology: The Voices Within** Charles Fernyhough, 2016-04-14  
We all hear voices. Ordinary thinking is often a kind of conversation, filling our heads with speech: the voices of reason, of memory, of self-encouragement and rebuke, the inner dialogue that helps us with tough decisions or complicated problems. For others - voice-hearers, trauma-sufferers and prophets - the voices seem to come from outside: friendly voices, malicious ones, the voice of God or the Devil, the muses of art and literature. In *The Voices Within*, Royal Society Prize shortlisted psychologist Charles Fernyhough draws on extensive original research and a wealth of cultural touchpoints to reveal the workings of our inner voices, and how those voices link to creativity and development. From Virginia Woolf to the modern Hearing Voices Movement, Fernyhough also transforms our understanding of voice-hearers past and present. Building on the latest theories, including the new 'dialogic thinking' model, and employing state-of-the-art neuroimaging and other ground-breaking research techniques, Fernyhough has written an authoritative and engaging guide to the voices in our heads. **WELLCOME COLLECTION** Wellcome Collection is a free museum and library that aims to challenge how we think and feel about health. Inspired by the medical objects and curiosities collected by Henry Wellcome, it connects science, medicine, life and art. Wellcome Collection exhibitions, events and books explore a diverse range of subjects, including consciousness, forensic medicine, emotions, sexology, identity and death. Wellcome Collection is part of Wellcome, a global charitable foundation that exists to improve health for everyone by helping great ideas to thrive, funding over 14,000 researchers and projects in more than 70 countries. [wellcomecollection.org](http://wellcomecollection.org)

**abstract thinking definition psychology: The Psychology of Word Meanings** Paula J. Schwanenflugel, 2013-06-17  
This volume contains perspectives from a collection of cognitive scientists on the psychological, philosophical, and educational issues surrounding the meanings of words and how these meanings are learned and accessed. It features chapters covering the nature and structure of word meaning, how new word meanings are acquired in childhood and later on in life, and how research in word processing may tell us something about the way in which word meanings are represented and how they relate to the language processor.

**abstract thinking definition psychology: Abstraction and Aging** Jason S. Lee, 2012-09-08  
Abstraction is one facet of intellectual functioning. The study of abstraction allows extremely valuable insights into human intelligence. While this monograph indicates that the ability to think abstractly declines slightly with age, there are a number of variables determining abstract thinking

and its relation to intelligence over the life-span. This monograph defines abstraction from all angles of thought, contrasting it with high-order thinking and stereotyped thinking; it discusses and evaluates tests of abstract thinking; and it presents new findings in sociological and psychological research on abstraction.

**abstract thinking definition psychology:** *A Certain Ambiguity* Gaurav Suri, Hartosh Singh Bal, 2010-07-01 While taking a class on infinity at Stanford in the late 1980s, Ravi Kapoor discovers that he is confronting the same mathematical and philosophical dilemmas that his mathematician grandfather had faced many decades earlier--and that had landed him in jail. Charged under an obscure blasphemy law in a small New Jersey town in 1919, Vijay Sahni is challenged by a skeptical judge to defend his belief that the certainty of mathematics can be extended to all human knowledge--including religion. Together, the two men discover the power--and the fallibility--of what has long been considered the pinnacle of human certainty, Euclidean geometry. As grandfather and grandson struggle with the question of whether there can ever be absolute certainty in mathematics or life, they are forced to reconsider their fundamental beliefs and choices. Their stories hinge on their explorations of parallel developments in the study of geometry and infinity--and the mathematics throughout is as rigorous and fascinating as the narrative and characters are compelling and complex. Moving and enlightening, *A Certain Ambiguity* is a story about what it means to face the extent--and the limits--of human knowledge.

**abstract thinking definition psychology:** *Cognitive Development in Psychology* Prof. Dr. Bilal Semih Bozdemir, The philosophical foundations of cognitive development can be traced back to ancient Greece, where figures like Plato and Aristotle pondered the nature of knowledge and learning. Plato proposed that knowledge is inherently linked to the world of forms, suggesting that understanding is an innate quality discovered through recollection. In contrast, Aristotle emphasized empirical observation and inductive reasoning, positing that knowledge is acquired through experience. Such dichotomies set the stage for subsequent theories of cognitive development, where the juxtaposition of innate traits versus experiential learning remained a dominant discourse. During the Enlightenment, intellectual shifts further complicated understanding of cognition. John Locke's tabula rasa concept suggested that the mind begins as a blank slate, thus emphasizing environmental influences on learning. In stark contrast, René Descartes' rationalism introduced the idea that certain truths are inherent and accessible through reason alone. These contrasting perspectives on the origin of knowledge significantly influenced later developmental theorists, shaping their research questions and methodological approaches. The 19th century marked a critical shift toward empirical investigation of cognitive development. The advent of psychology as a formal discipline expanded the exploration of human cognition. Pioneers such as Ernst Weber and Gustav Fechner examined the relationship between physical stimuli and perception, enriching the understanding of how cognitive processes operate. Additionally, the work of Wilhelm Wundt laid the groundwork for experimental psychology, highlighting the importance of controlled environments in the study of cognition. By the late 19th century, the scientific community began to focus on developmental psychology, recognizing the importance of understanding cognitive processes across the lifespan.

**abstract thinking definition psychology:** *Thinking, Fast and Slow* Daniel Kahneman, 2011 No Marketing Blurb

**abstract thinking definition psychology:** *Encyclopedia of Aging and Public Health* Sana Loue, Martha Sajatovic, 2008-01-16 Americans are living longer, and the elder population is growing larger. To meet the ongoing need for quality information on elder health, the *Encyclopedia of Aging and Public Health* combines multiple perspectives to offer readers a more accurate and complete picture of the aging process. The book takes a biopsychosocial approach to the complexities of its subject. In-depth introductory chapters include coverage on a historical and demographic overview of aging in America, a guide to biological changes accompanying aging, an analysis of the diversity of the U.S. elder population, legal issues commonly affecting older adults, and the ethics of using cognitively impaired elders in research. From there, over 425 entries cover the gamut of topics,

trends, diseases, and phenomena: -Specific populations, including ethnic minorities, custodial grandparents, and centenarians -Core medical conditions associated with aging, from cardiac and pulmonary diseases to Parkinson's and Alzheimer's -Mental and emotional disorders -Drugs/vitamins/alternative medicine -Disorders of the eyes, feet, and skin -Insomnia and sleep disorders; malnutrition and eating disorders -Sexual and gender-related concerns -And a broad array of social and political issues, including access to care, abuse/neglect, veterans' affairs, and assisted suicide Entries on not-quite-elders' concerns (e.g., midlife crisis, menopause) are featured as well. And all chapters and entries include references and resource lists. The Encyclopedia has been developed for maximum utility to clinicians, social workers, researchers, and public health professionals working with older adults. Its multidisciplinary coverage and scope of topics make this volume an invaluable reference for academic and public libraries.

**abstract thinking definition psychology: A Theory of Creative Thinking** Kekang He, 2017-06-13 This book examines research on creative thinking, both current and historical. It explores two dimensions of human thought (time and space) and two modes of thinking (conscious and unconscious) as well as both left and right brain functions and artistic and scientific creative activities. The book proposes a "Double Circulation" model of creative thinking and argues that imagery thinking, intuitive thinking and logical thinking are main parts of creative thinking and that dialectical thinking and horizontal-vertical thinking are the guides for highly complex problem-solving thoughts and strategies. The book focuses on education and psychology and also covers how to use ICT to promote students' creative thinking skills. Researchers will benefit from the Double Circulation model, which provides a new perspective on conducting creative thinking research. The book is also a valuable resource for graduate students in the fields of educational technology and psychology and for all readers who are interested in creative thinking.

**abstract thinking definition psychology: Child Psychology** Robin Harwood, Scott A. Miller, Ross Vasta, 2008-01-03 In this comprehensive overview, readers will gain a better understanding of the various theories, perspectives, and research that characterize contemporary themes in child development. The book uses a contextual approach to examine the biological, cognitive, social, and emotional foundations of child development. Special attention is paid throughout to the contexts in which development occurs, including families and the larger culture, and how these intersect with our changing society.

**abstract thinking definition psychology: The International Handbook on Innovation** Larisa V Shavinina, 2003-10-16 Approx.1200 pages Approx.1200 pages

**abstract thinking definition psychology: Psychology: From Inquiry to Understanding** Scott Lilienfeld, Steven Jay Lynn, Laura Namy, Nancy Woolf, Graham Jamieson, Anthony Marks, Virginia Slaughter, 2014-10-01 Psychology: from inquiry to understanding 2e continues its commitment to emphasise the importance of scientific-thinking skills. It teaches students how to test their assumptions, and motivates them to use scientific thinking skills to better understand the field of psychology in their everyday lives. With leading classic and contemporary research from both Australia and abroad and referencing DSM-5, students will understand the global nature of psychology in the context of Australia's cultural landscape.

**abstract thinking definition psychology: Abstraction ,**

**abstract thinking definition psychology: The Dialectics of the Abstract and the Concrete in Marx's Capital** E. V. Ilyenkov, 2008 The book presents an integral Marxist conception of the dialectics and methodology of scientific theoretical cognition, of the dialectical interrelation between the abstract and the concrete, of the unity of the historical and the logical, of the correlat

**abstract thinking definition psychology: A Dictionary of Psychology** Andrew M. Colman, 2015 An authoritative and accessible reference guide to psychology. Includes over 11,000 clear and concise definitions of a wide range of terms and concepts in psychology, psychiatry, and psychoanalysis. Ideal for students and professional psychologists, as well as the general reader.

**abstract thinking definition psychology: Neuroeconomics of Prosocial Behavior** Carolyn Declerck, Christophe Boone, 2015-08-21 This summary of recent research in neuroeconomics aims

to explain how and why a person can sometimes be generous, helpful, and cooperative, yet other times behave in a self-interested and/or exploitative manner. The book explains a dual process of analysis measuring immediate needs of the individual, relative to long term gains possible through prosocial behavior (e.g. synergy, accumulating profits, (in)direct reciprocity) with the output further mitigated by the motivation of the individual at that moment and any special circumstances of the environment. Ultimately it can be shown that prosocial behavior can be economically rational. Yet even when individuals are intrinsically motivated to act prosocially, they are also able to reverse this behavior when they sense it is no longer adaptive. The book will further explore individual differences in prosocial behavior, the development of prosocial behavior, and how a personal neural signature forms that facilitates or hampers cooperation. The book includes game theory research, neuroimaging studies, and research in traditional cognitive psychology to better understand human decision-making re prosocial behavior. This will be of interest to cognitive, developmental, and social psychologists, as well as neuroscientists, and behavioral economists. - Explores: Individual differences in prosocial behavior, The development of prosocial behavior, How a personal neural signature forms that facilitates or hampers cooperation - Includes: Game theory research, Neuroimaging studies, Research in traditional cognitive psychology

**abstract thinking definition psychology:** *Encyclopaedic Dictionary of Psychological Terms* J.C. Banerjee, 1994-12 The book is compiled with a view to making a ready reference book on the subject for both teachers and students. The book is an up-to-date record in so far as general psychology is concerned.

**abstract thinking definition psychology: The Science of Learning** Hanjiang Wen, 2022-11-26 This book systematically summarizes the author's more than 30 years of experience in teaching reform and educational research. The book is divided into three parts. Part I focuses on the comprehensiveness of thinking and the relationship between the coordinated development of thinking and the overall development of human beings. Part II and Part III mainly discuss the six basic principles of learning and thinking: the principle of the working memory of thinking, the principle of learning transfer, the principle of the basic process of learning, the principle of multi-level development of ability, the principle of sustainable development of learning, and the principle of subjectivity of learning. This book features the rules and characteristics of student learning with a student-centered approach, which can help teachers and educational researchers to better understand students and provide theoretical guidance for students' all-round development.

**abstract thinking definition psychology: Introduction to Clinical Psychology** John Hunsley, Catherine M. Lee, 2017-12-04 *Introduction to Clinical Psychology: An Evidence-Based Approach*, 4th Edition by University of Ottawa authors Catherine M. Lee and John Hunsley introduces students to the theories and practices of clinical psychology and conveys the important work done by clinical psychologists. This text is designed to be helpful not only to those who will go on to careers in clinical psychology, but also to those who will choose other career paths.

**abstract thinking definition psychology: Power, Dominance, and Nonverbal Behavior** Steve L. Ellyson, John F. Dovidio, 2012-12-06 The study of nonverbal behavior has substantially grown in importance in social psychology during the past twenty years. In addition, other disciplines are increasingly bringing their unique perspectives to this research area. Investigators from a wide variety of fields such as developmental, clinical, and social psychology, as well as primatology, human ethology, sociology, anthropology, and biology have systematically examined nonverbal aspects of behavior. Nowhere in the nonverbal behavior literature has such multidisciplinary concern been more evident than in the study of the communication of power and dominance. Ethological insights that explored nonhuman-human parallels in nonverbal communication provided the impetus for the research of the early 1970s. The sociobiological framework stimulated the search for analogous and homologous gestures, expressions, and behavior patterns among various species of primates, including humans. Other lines of research, in contrast to evolutionary-based models, have focused on the importance of human developmental and social contexts in determining behaviors associated with power and dominance. Unfortunately, there has been little in the way of



cross-fertilization or integration among these fields. A genuine need has existed for a forum that examines not only where research on power, dominance, and nonverbal behavior has been, but also where it will likely lead. We thus have two major objectives in this book. One goal is to provide the reader with multidisciplinary, up-to-date literature reviews and research findings.

**abstract thinking definition psychology: Introduction to Psychology**, 1916

**abstract thinking definition psychology: Psychological Types** Carl Jung, 2016-10-04

Psychological Types is one of Jung's most important and famous works. First published in English by Routledge in the early 1920s it appeared after Jung's so-called fallow period, during which he published little, and it is perhaps the first significant book to appear after his own confrontation with the unconscious. It is the book that introduced the world to the terms 'extravert' and 'introvert'. Though very much associated with the unconscious, in Psychological Types Jung shows himself to be a supreme theorist of the conscious. In putting forward his system of psychological types Jung provides a means for understanding ourselves and the world around us: our different patterns of behaviour, our relationships, marriage, national and international conflict, organizational functioning. This Routledge Classics edition includes a new foreword by John Beebe.

**abstract thinking definition psychology: Elementary Psychology** S.M. Mohsin, 2002-04

In Elementary psychology the author has presented the subject in such a way that the student is able to understand the basic facts and theories in the background of real-life situations. Well before a new term or concept is introduced, the reader is prepared in advance to understand and accept it. An attempt is made in the present work to bring the topic of learning much closer to the reader's life and endeavours and to integrate it with his day-to-day experiences of the world around him. In this treatment of motivation and personality, the author has drawn liberally upon his knowledge of psycho-pathology and the facts of social behaviour without which an understanding of the underlying dynamics of behaviour is not possible. An additional special feature of the book is the chapter on intelligence and aptitudes which prepares the student for a full-dress discourse on techniques of test construction at a later stage in his study of the subject.

**abstract thinking definition psychology: Introduction to Neuropsychology** J. Graham

Beaumont, 2008-05-21 This outstanding text gives students a solid grounding in clinical and experimental neuropsychology. The author is a leading authority whose engaging writing style and thorough yet concise coverage of brain localization, anatomy, and their links to cognitive function make the book ideal for undergraduate or graduate use. It is illustrated with more than 60 figures, including six color plates.

**abstract thinking definition psychology: The Complete Leader** Ron Price and Randy Lisk,

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know to be The Complete Leader.” Marshall Goldsmith, International Bestselling Author “This book can serve as your own leadership curriculum as you work on the competencies you need to be an effective leader.” Marshall Goldsmith, International Bestselling Author

**abstract thinking definition psychology: Young Children's Play and Environmental Education in Early Childhood Education** Amy Cutter-Mackenzie, Susan Edwards, Deborah Moore, Wendy Boyd, 2014-01-18 In an era in which environmental education has been described as one of the most pressing educational concerns of our time, further insights are needed to understand how best to approach the learning and teaching of environmental education in early childhood education. In this book we address this concern by identifying two principles for using play-based learning early childhood environmental education. The principles we identify are the result of research conducted with teachers and children using different types of play-based learning whilst engaged in environmental education. Such play-types connect with the historical use of play-based learning in early childhood education as a basis for pedagogy. In the book 'Beyond Quality in ECE and Care' authors Dahlberg, Moss and Pence implore readers to ask critical questions about commonly held images of how young children come to construct themselves within social institutions. In similar fashion, this little book problematizes the taken-for-grantedness of the childhood development project in service to the certain cultural narratives. Cutter-Mackenzie, Edwards, Moore and Boyd challenge traditional conceptions of play-based learning through the medium of environmental education. This book signals a turning point in social thought grounded in a relational view of (environmental) education as experiential, intergenerational, interspecies, embodied learning in the third space. As Barad says, such work is based in inter-actions that can account for the tangled spaces of agencies. Through the deceptive simplicity of children's play, the book stimulates deliberation of the real purposes of pedagogy and of schooling. Paul Hart, University of Regina, Canada

**abstract thinking definition psychology: PSYCHOLOGY THE STUDY OF HUMAN BEHAVIOUR** BRAJ KUMAR MISHRA , 2016-06-04 Human behaviour—both complex and simple—is such a fascinating subject for study and research, and therefore, psychology as a subject is of tremendous importance to the students and the researchers. This accessible and student-friendly text in its second edition, shows the 'what,' 'why' and 'how' of human behaviour patterns. The text emphasizes controlled and systematic studies to explain such behavioural aspects as sensing, perceiving, modifications of human behaviour, memorizing, the recollection of past events, and affecting processes. The text is interspersed with many examples to illustrate the concepts discussed. The concepts are well-supported with experimental as well as observational facts. What's more, the book acquaints the reader with the recent advances in the field of psychology.

**abstract thinking definition psychology: ADVANCED EDUCATIONAL PSYCHOLOGY, Second Edition** MANGAL, S. K., 2002-01-01 This revised and expanded edition is a sequel to the first edition which was warmly received by the student and teaching community for its indepth analysis and refreshing approach to the subject. Psychology of Individual differences Transfer of Learning or Training Emotional Development and Emotional Intelligence Learning Disabilities and Learning Disabled Children Beginning with an introduction to the nature and scope, and the various schools of psychology, the book dis-cusses the systems propounded by Freud, Adler, Jung and Piaget, taking into account their critical importance to the subject. It then focuses on the psychology of growth and development, psychology of individual differences, motivation, attention and personality, with an emphasis on the individual's attitude towards learning, and the factors influencing learning. The text also elaborates the nature and theories of learning and the aspects of memory such as remembering and forgetting. The cognitive aspect, i.e. intelligence, and vital topics like creativity and the psychology of thinking, reasoning and problem-solving have been accorded due promi-nence. A detailed discussion on exceptional children and learning disabled children together with the educational measures for overcoming such disabilities is also included. The text concludes with an important aspect of human behaviour, namely, adjustment. Interspersed with examples, illustrations and tables, this text is ideally suited for postgraduate students of education and psychology. It can

also be profitably used by teachers, teacher-educators, guidance and counselling personnel, and administrators of educational institutions.

**abstract thinking definition psychology: The Dopaminergic Mind in Human Evolution and History** Fred H. Previc, 2009-05-14 What does it mean to be human? There are many theories of the evolution of human behavior which seek to explain how our brains evolved to support our unique abilities and personalities. Most of these have focused on the role of brain size or specific genetic adaptations of the brain. In contrast, in this text, Fred Previc presents a provocative theory that high levels of dopamine, the most widely studied neurotransmitter, account for all major aspects of modern human behavior. He further emphasizes the role of epigenetic rather than genetic factors in the rise of dopamine. Previc contrasts the great achievements of the dopaminergic mind with the harmful effects of rising dopamine levels in modern societies and concludes with a critical examination of whether the dopaminergic mind that has evolved in humans is still adaptive to the health of humans and to the planet in general.

**abstract thinking definition psychology: Sport and Exercise Psychology: The Key Concepts** Ellis Cashmore, 2006-02-06 Psychology is an integral element of sport today, from the applied techniques of coaches and athletes, to the socio-psychological behaviour of sport fans. Sport and Exercise Psychology: The Key Concepts offers an introductory guide to the vocabulary of sport psychology, to its central theories and most important avenues of research, and to its application in sports performance. Modern and historical illustrations are used throughout the text, while an extensive bibliography and index ensure that the book is an indispensable research tool for any student of sport psychology.

**abstract thinking definition psychology: Discovering the Brain** National Academy of Sciences, Institute of Medicine, Sandra Ackerman, 1992-01-01 The brain ... There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the Decade of the Brain by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. *Discovering the Brain* is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. *Discovering the Brain* is a field guide to the brain—an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines: How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention—and how a gut feeling actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the Decade of the Brain, with a look at medical imaging techniques—what various technologies can and cannot tell us—and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers—and many scientists as well—with a helpful guide to understanding the many discoveries that are sure to be announced throughout the Decade of the Brain.

**abstract thinking definition psychology: Sport Psychology** Ellis Cashmore, Ernest Cashmore, 2002 Sport psychology is no longer just an academic subject, it is a discipline studied and applied by all those associated with sport, whether athletes, coaches, journalists or fans. This text concerns key topics in the field of sport psychology.

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