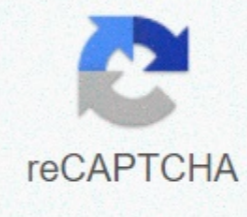




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Top reviews The latest top reviews Acting on the unequivocal premise that creative thinking is in fact pre-verbal, intuitive and emotional, root-bernsteins (Honey, Mud, Maggots and Other Medical Marvels) describe 13 tools that help translate spontaneous imaginative experiences into specific media, such as painting, music, scientific experiments and poetry. Among the techniques they identify and describe are imaging, abstraction, body thinking and compassion. While there is significant overlap between categories (for example, in sections on analogization and pattern recognition), root-bernsteins manage to define the uniqueness of each category. Freely acknowledging that they claim nothing an astonishing novel, the authors present an impressive number of first-hand accounts of the creative process, from Albert Einstein and Merce Cunningham to Oliver Sacks and Charles Ives. Some may have trouble accepting the assumption that all creative thinking - whether for poetic composition or scientific experiment, and regardless of native culture or thinker language - is universally categorizing, but the authors strongly argue for a view that is becoming increasingly popular. They conclude by listing proposals on how to transform education from an elementary level upwards to better suit our demanding, multidimensional culture. (Jan.) Copyright 1999 Reed Business Information, Inc. --This text refers to an unprinted or unavailable release of this title. No Bio --This text refers to an unprinted or unavailable release of this title. Chapter 1 Rethinking thinking everyone thinks. But not everyone thinks equally well. For real intellectual feasts, we depend on the masters of chefs who have learned to mix and mix and enjoy a whole range of mental ingredients. It's not like what they do in the kitchen is different from what we do, they just do it better. We like to assume that master chefs are born that way, but even the most promising individuals spend years in training. It follows that we too can learn the tools of the craft and thereby improve our own mental cooking. This process, however, requires us to rethink what gourmet intellection is all about. And the rethink shifts our educational focus from what to think about how to think in the most productive ways possible. Our tour of the mental kitchen begins in the kitchen of the mind, where ideas are marinated, stewed, stewed, beat, baked and whipped into shape. Just as real chefs surprise us by throwing in a pinch of this and a handful of something else, creative imagination kitchens are full of unexpected practices. Great ideas are created in the strangest ways and mixed from the strangest ingredients. What goes into the recipes often has no resemblance to the ready-made dish. Sometimes the head mental chef can't even explain it. She knows her meal is going to taste good. It just has the feeling that this imaginary blend of ingredients will bring a delicious surprise. Gut feelings don't make any obvious sense. Consider, for example, the experience of a young Barbara McClintock, who would later earn the Nobel Prize in Genetics. One day in 1930, she stood with a group of scientists in the cornfields around Cornell University, pondering the results of a genetics experiment. Researchers expected half of the maize to produce sterile pollen, but less than a third actually do. The difference was significant, and McClintock was so upset that she left the cornfield and climbed the hill to her lab, where she could sit alone and think. Half an hour later she jumped up and ran onto the field. At the top of the field (everyone else was down at the bottom) I was shouting, 'Eureka, I've got it! I have the answer! I know what 30 per cent sterility is.' Her colleagues naturally said, Prove it. Then she discovered she had no idea how to explain her insight. Many decades later, McClintock said: When you suddenly see a problem, something happens that you have the answer - before you can put it into words. Everything is done subconsciously. It's happened to me many times, and I know when to take it seriously. I'm absolutely sure. I don't talk about it, I don't have to tell anyone about it, I'm just sure that's it. This sense of cognition without being able to say how it is known is common. French philosopher and mathematician Blaise Pascal is known for his aphorism The heart has its reasons that reason cannot know. Nineteenth-century great mathematician Carl Friedrich Gauss admitted that intuition often led him to ideas he could not immediately prove. I have had my results for a long time; But I don't know how I'm going to get them yet. Claude Bernard, founder of modern physiology, wrote that everything purposeful in scientific thinking began with feeling. A sense of solitude, he wrote, guides the mind. The painter Pablo Picasso confessed to a friend: I do not know in advance what I will put on the canvas any more than I previously decide what colors to use... Every time I get dressed to paint a picture, I feel like jumping into space. I never know if I'm going to fall to my feet. Only later do I begin to assess the effect of my work more. Composer Igor Stravinsky also found that the imaginative activity began with some inexplicable appetite, some intuitive understanding of an unknown entity that is already obsessed but not yet understandable. The Latin American Romanopic Isabel Allende described a similarly unsatisfying sentiment that drives her work: Somehow inside me - I can say it after writing five books - I know I know where I'm going. I know I know the end of the book even though I don't know it. so hard to explain. Knowing in such ambiguous, inarticulous ways raises an important question. McClintock put it this way: Everything was done quickly. The answer came, and I'd run. Now I was doing it step by step - it was an intricate series of steps - and I came out with what was... It worked exactly as I would diagrammed it. Why did I know I didn't do anything on paper? Why was I so sure I could tell them with such excitement and just say, 'Eureka, I've sorted it out?' McClintock's inquiry strikes at the core of understanding creative thinking, as well as the experience of Picasso and Gauss, composers and physiologists. Where do sudden lighting or insights come from? How can we know things we can't say, draw or write yet? How do gut feelings and intuitions work in imaginative thinking? How to translate from feeling to word, emotion to number? In the end, can we understand this creative imagination and, understanding it, can we practice it, train it and educate it? Philosophers and psychologists have pondered these and related issues for hundreds of years. Neurobiologists looked for answers in brain structures and connections between nerve synapses. Full answers are still coming out of the way. But one source of insight into creative thinking is greatly underestimated and underused: reports from eminent thinkers, creators and inventors himself. Their introspective reports can't answer all our questions about thinking, but they certainly provide important and surprisingly new ways of exploring. Above all, they tell us that conventional notions of thinking are incomplete at best, because they lack illogical forms of thinking that cannot be verbalized. Take, for example, the testimony of physicist Albert Einstein. Most people would expect Einstein to describe himself as solving his problems with physics using mathematical formulas, numbers, complex theories and logic. In fact, Harvard psychologist Howard Gardner's recent book, Creating Minds, portrays Einstein as the form of a logical-mathematical mind. His peers, however, knew Einstein was

relatively weak in math, often needed to work with mathematicians to push his work forward. In fact, Einstein wrote to one correspondent: Don't worry about your difficulties in math. I can assure you my parents are still bigger. Einstein's mental strengths were quite different, as he revealed to his colleague Jacques Hadamard. Language words, as written or spoken, do not seem to play any role in my thinking mechanism. Psychic entities that seem to serve as elements in thought are certain signs and more or less clear images that can be 'voluntarily' reproduced and combined. The above elements are, in my case, visual and of some muscular type. In a kind of thought experiment he couldn't articulate himself, pretended to be a photon moving at the speed of light, imagining what he saw and how he felt. Then he became the second photon and tried to imagine what he could experience from the first. As Einstein explained to Max Wertheimer, a psychologist, he only vaguely understood where his visual and muscular thinking would take him. His sense of direction, he said, was very difficult to express. McClintock, for her part, talked about developing a sense of the organism like Einstein's sense of light beam. She began to be able to remember each of her corn plants so intimately that when she studied their chromosomes, she could truly identify with them: I found that the more I worked with them, the bigger and bigger they were, and when I really worked with them I wasn't out, I was down. I was part of the system. I could even see the inner parts of the chromosome - actually it was all there. It surprised me because I actually felt like I was down there, and those were my friends... As you look at these things, they become a part of you. And you're forgetting yourself. The main thing is to forget yourself. Similar emotional involvement played a key role in the pre-location scientific thinking of Claude Bernard, who wrote: Just as in other human activities, feeling unleashes an act by presenting an idea that gives motive to action. For Wolfgang Pauli, a mathematical physicist, the emotional response worked in place of ideas that had not yet been articulated. Within the unconscious region of the human soul, he wrote, the place of clear concepts takes images of powerful emotional content, which is not thought of, but is seen pictorially, as it were, in front of the eye of the mind. Some scientists insist that thinking in feelings and mental images can be rationally manipulated. Einstein suggested a certain connection between psychics who seem to serve as elements in thought and relevant logical concepts. Mathematician Stanislaw Ulam made the argument even more strongly. He experienced abstract mathematical concepts in the visual sense, so the idea of infinity of spheres or infinity of sets became an image with such almost real objects, getting smaller, disappearing on some horizon. Such thinking is not in terms of words or syllogisms or signs, but in terms of some visual algorithm that has some kind of meta- or super-logic with its own rules. For William Lipscomb, winner of the Nobel Prize in Chemistry and, not coincidentally, a fine musician, this kind of thinking is a synthetic and aesthetic experience. In the research of pine chemistry, he found himself thinking not only inductively and debitously, but also intuitively. I felt the focus of intellect and em otions which was surely an aesthetic response, he wrote. This was followed by predictions coming from my mind like I'm an observer watching it happen. Only later was I able to begin to formulate a systematic theory of structure, rapprox and reaction... - This text refers to an unprinted or inaccessible edition of this title. What a different shtist painter and a physicist in a lab! Yet the Root-Bernsteins recognize the profound similarity of all creative thinking, whether in art or science. They show this similarity by comparing the accounts that various pioneers and inventors have left behind from their own creative processes: for Picasso just as for Einstein, for Klee just as for Feynman, the creative impulse always begins in vision, emotion, intuition. Such intuition naturally resists parsing, but the authors identify and explain the use of 13 tools - from body thinking to synthesis - to escape legacy categories and explore new possibilities. With a sumptuously illustrated chapter dedicated to each tool, readers quickly realize how far the imagination can stretch. The authors acknowledge that cataloguing creative thought tools does not guarantee success in their application. Nevertheless, they hope that with a better understanding of these tools, society will erect bridges between isolated specialties and establish schools that will stifle rather than stifle a creative spark. Bryce Christensen -- This text refers to an unprinted or unavailable edition of this title. Are there any special thinking strategies that characterize genius? How did einsteins, Freuds, Picassos, Galileos and Mozarts come up with their ideas? Root-Bernsteins, Robert (professor of physiology, Michigan State Univ.) and Mich?e (history and writing teacher), have been studying creativity for more than a decade. Using the results of these studies, they identified the following 13 thinking tools to help us capitalize on our own personal genius and free our minds to be more creative: observation, imaging, abstraction, pattern recognition, pattern formation, analogization, body thinking, compassion, dimensional thinking, modeling, gaming, transformation and synthesis. The book is well written and easy to follow, and each chapter contains a thorough discussion of each tool. The remarkable Minds on Resources section helps the reader use the tool. Scientifically and inspiringly, this book is highly recommended for psychology and educational collections in academic and large public libraries. - Elizabeth Goeters, Roswell, GA Copyright 2000 Reed Business Information, Inc. -- This text refers to an unprinted or unavailable edition of this title. Every child is a diamond of potential genius. The Root-Bernsteins offer a glass to think about and polish all the fascists of brilliance. - Michael J. Gelb, author of How to Think Like Leonardo da Vinci A fascinating study of creative thinking - the largest attribute. - Desmond Morris, zoologist, artist and author of The Naked Monkey (Desmond Morris, zoologist, artist and author of The Naked Monkey) -- This text refers to an unprinted or inaccessible edition of this title. SPARKS OF GENIUS The Root-Bernsteins (Honey, Mud, Maggots, and Other Medicinal Marvels, 1997) presents a smart, detailed and demanding fitness program for the creative mind. It's not very late news, and authors don't play it as such, that the American education system tends to fragment knowledge, fence ideas and laws from their practical applications, abolish it intuitively and compassionately in favor of empirical. But Root-Bernstein's cogently attributes creative thinking to the work of the subconscious, the pre-traditional shimmer amid the noise of formal thinking that intuitively synthesizes insight before it is converted into words, dance, music, mathematics, images, anything. This engagement of the entire chef's garden of subconscious viewing modes, the urge of root-bernteins, is what we need to practice. Here they demonstrate the transdisciplinary aspects of the creative process and give both examples of how they work in unusual minds, from Einstein (how she sympathizes with the photon) to Helen Keller (as she thinks in feelings without words) and the ways in which readers can bring them to speed in their own lives. Their 13 tools include exercises in polysensory imaging, analogization (how is an electron like a vibrating array?), recognizing patterns as elegant as those of tectonic plate theory, moving from abstract to essence, and releasing wild creativity through play. They conclude with some pedagogical advice intuitive and imaginative skills, give arts and sciences equal billing, accept the transdisciplinary education they follow from their arguments, but belabor obviously, a failure that often haunts their text: Pollock's work cannot be fully experienced just by watching which one needs to feel. While readers' results will depend on their level of commitment, you don't have to be a genius to realize that implementing even one of Root-Bernsteins' pre-itelectual programs should improve creative thinking. (Photos) -- Copyright © 1999, Kirkus Associates, LP. All rights reserved. --This text refers to an unprinted or unavailable release of this title. Title.

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