



Positively **SMARTER**

*Science and Strategies for
Increasing Happiness,
Achievement, and Well-Being*

**Marcus Conyers
and Donna Wilson**

WILEY Blackwell

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This book is dedicated to the graduates of the master's and educational specialist degree programs with majors in brain-based teaching and the graduates in the doctoral minor in brain-based leadership at Nova Southeastern University. Thank you for all you are doing to help students, families, colleagues, schools, and communities to become positively smarter.

Contents

Acknowledgments	xiii
Introduction	1
Appreciating Brain Plasticity: The Key to Redefining Potential	4
<i>The Path to Positively Smarter</i>	4
Our Personal Introductions to the Science That Supports Ways for Becoming Positively Smarter	8
1 Building a Smarter Brain	11
Neuroplasticity in Action	12
Your Brain at Work: A Continual Construction Zone	14
Beyond Conventional Wisdom: Harnessing Your Neurocognitive Synergy	21
<i>Intelligence Takes Many Forms</i>	21
<i>People of All Ages Have the Capacity to Improve Their Knowledge and Abilities</i>	23
<i>What We Do Has a Greater Influence on How We Age Than Genetics</i>	24
<i>How We Think Can Influence Our Health</i>	24
<i>We Can Build Muscle and Become Stronger Well into Our Eighties</i>	25
<i>It's Hard to Identify the Children Who Are "Destined for Greatness"</i>	25

Contents

<i>Perceptions about Malleable vs. Fixed Intelligence</i>	
<i>Matter—a Lot</i>	26
Plasticity as a Path to Becoming Positively Smarter	29
A New Positive Paradigm	35
<i>The Inmate Talent (IT) Paradigm</i>	35
<i>The Untapped Potential (UP) Paradigm</i>	36
2 Why Happiness Matters	41
Reaping the Many Benefits of Happiness	42
I'll Be Happy When . . .	45
What Is This Thing Called Happiness?	47
<i>Spirituality and Religion as Sources of Happiness</i>	51
Tapping into the Science of Happiness	51
Achieving Greater Happiness Through Practical Metacognition	54
Applying the CIA Model	55
<i>CIA in Action: Happiness and Subjective Well-Being</i>	57
3 Stop Daydreaming and Start Thinking Your Way to Higher Levels of Happiness	60
Connecting Thinking and Feeling	63
The Focused Fifteen	67
1. <i>Savor the Wow of Now</i>	67
2. <i>Work at Maintaining an Upbeat Attitude with Positive Self-Talk</i>	69
3. <i>Picture a Positive Future</i>	73
4. <i>Kindness the Killer App</i>	74
5. <i>Active Appreciation: Create and Tune into Your Appreciation Station</i>	76
6. <i>Give It a Break: Hang Your Problems Away for a While</i>	77
7. <i>Treat Your Relationships Like a Treasure (Because They Are)</i>	78
8. <i>Pursue Flow</i>	80
9. <i>Pursue Smarter Goals</i>	80
10. <i>Enhance Your Resilience: Build Your Own Palmetto Fort</i>	82

Contents

11. <i>Untie the Knots That Bind: Free Yourself with Forgiveness</i>	83
12. <i>Move Your Body, Boost Your Mood</i>	84
13. <i>Smile, and Your Brain Smiles with You</i>	85
14. <i>Play to Your Peak Strengths</i>	85
15. <i>Practice the Art of Treasuring</i>	86
<i>How to Be Less Happy More of the Time</i>	87
Maintain Your Positive Focus by Playing Your ACE	88
4 Working Toward Achieving Your Goals	92
Realizing Our Potential	93
“Natural” Talent vs. Deliberate Practice	95
Motivation to Take Positive Risks	98
Finding “Flow”	101
Putting Your Will to Work	102
Getting Gritty as a Path to Achievement	106
Build Your “Memory Muscle” to Make the Most of Your Work	108
A Personal Perspective on the Payoff for Hard Work	111
5 Working Smarter with Practical Metacognition	117
The Input–Processing–Output Model of Learning	121
Cognitive Assets You Can Develop to Work Smarter	123
<i>Clear Intent</i>	124
<i>Appropriate Courage</i>	125
<i>Systematic Search and Planning</i>	126
<i>Understanding and Managing Time</i>	127
<i>Cognitive Flexibility</i>	128
<i>Learning from Experience</i>	129
<i>Finishing Power</i>	129
Pacing on the Path to Positively Smarter	131
Practical Metacognition in Action: Lessons from the Grameen Bank	133

Contents

6 Better Together	136
Born to Be Social: Impact on Health and Well-Being	139
Anatomy of the Social Brain	141
Getting “Socially Smarter”	143
<i>Accentuate the Positive</i>	144
<i>Polish Your Listening Skills</i>	146
<i>Consider Others’ Points of View</i>	147
<i>Establish Rapport</i>	148
<i>Learn Together</i>	149
<i>Become a Great Encourager</i>	150
<i>Contribute to the “Social Capital” of Your Community</i>	152
Being Social in a High-Tech World	153
7 Building a Smarter Body–Brain System Through Exercise	159
Work Out the Body to Keep the Brain Young	161
New Muscle Is Young Muscle	163
The Body–Brain System Inside and Outside the Classroom	166
Reward Your Body with Adequate Rest	168
Find What You Love	169
Making Exercise Part of Your Routine	170
Putting the Research on Exercise into Personal Practice	171
<i>Low Heart Rate Route to Runners’ High</i>	173
<i>Winning Our Blades: A Positive Payoff</i>	173
8 Fuel Your Body–Brain System for Peak Performance	177
The Brain Benefits of “Going Mediterranean”	179
What’s on Your Plate?	181
Why and How to Eat Smarter	182
Better by the Dozen: Twelve Power Foods to Fuel Well-Being	188
Educational Implications of Becoming “HealthWise”	191

Contents

9 Bringing It All Together, Putting It into Practice	197
Forging a New Foundation Grounded in Neuroplasticity	199
Examples of the UP Paradigm in Practice	201
Seven Principles of the Positively Smarter Approach	202
<i>Principle 1: Keep Neuroplasticity Front of Mind</i>	203
<i>Principle 2: Build the Skills of Optimism and Happiness</i>	203
<i>Principle 3: Appreciate Your Potential to Become Smarter</i>	203
<i>Principle 4: Apply Practical Metacognition and Cognitive Assets</i>	204
<i>Principle 5: Use Your Social Brain to Enhance Well-Being and Achievement</i>	204
<i>Principle 6: Get Moving to Grow Your Brain (and Become Fitter, Stronger, Smarter, and Happier)</i>	205
<i>Principle 7: Fuel Your Body–Brain System to Enhance Productivity and Learning</i>	205
Capitalize on Your Neurocognitive Synergy	206
The Practical Metacognition Process for Pursuing Important Goals	206
Thanks for Joining Us on a Journey to Becoming Positively Smarter	209
Appendix	212
Index	219
About the Authors	229

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Introduction

Redefining Potential as Our Neurocognitive Capacity to Get Better at (Almost) Anything

“The brain is a complex biological organ of great computational capability that constructs our sensory experiences, regulates our thoughts and emotions, and controls our actions.”

—Eric Kandel, Nobel laureate¹

The classic documentary *Private Universe*, produced by the Harvard-Smithsonian Center for Astrophysics, explores challenges in science education. In its opening scene, randomly selected graduates and faculty at a Harvard commencement are asked to explain why it is warm in the summer and cold in the winter. These bright young people who have had the advantage of the most sought-after education in the world happily list the science courses they took in high school and college and then embark on their descriptions of what causes the seasons. Most come down to a common conceptualization: The Earth’s orbit around the sun is elliptical; when it passes nearest the sun, we have summer, and at the farthest reaches of its oval-shaped path, we dig out our winter coats and snow shovels. These Harvard graduates and several of their professors are well spoken and

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enthusiastic, and their astronomical interpretations are convincing, clearly explained, and—for 21 of the 23 people interviewed—just plain wrong.²

In much the same way, each of us relies on personal theories operating in our own “private universe,” and these theories have a profound impact on how we think and feel and what we achieve in our lives. One of the most influential theories is how we perceive our potential to succeed in school, in work, and in life. What sets high achievers apart from others? What stands between us and our aims of finding happiness, excelling in educational and career pursuits, and achieving our personal goals?

One prevalent conception holds that people’s potential for achieving these aims is determined by the pre-established portion of innate talent, inherited intelligence, and deep-seated predilection toward optimism or pessimism that determines the level of their progress and outlook on life. A big portion leads to big success, and a smaller portion limits the ability to move ahead. This conception holds that innate talent is obvious in how easily some people do well in school and excel in their chosen fields. The necessity to work hard indicates a lack of potential. Intelligence is fixed, and IQ scores predict with eerie certainty how well people will do in life.

This view of potential is quite common. In their book *Teaching for Wisdom, Intelligence, Creativity, and Success*, authors Robert Sternberg, Linda Jarvin, and Elena Grigorenko note that single-faceted views of general intelligence, such as one called the “*g*-factor theory,” are based on beliefs that intelligence, ability, and outlook are fixed from birth by genetic endowment. “In other words, according to this theory, you are born with a certain amount of smarts and the type of schooling you receive won’t change it that much.”³

Writing about widely held perceptions of success, Heidi Grant Halvorson contends that culture has a powerful influence on how we think about achievement. Western societies tend to equate accomplishment with innate abilities and label people as *geniuses* and *prodigies* in a way that signals that their successes are rare

and out of the reach of the rest of us “non-geniuses.” Americans, especially, “celebrate people who we believe have special abilities and tend to see those who work hard to succeed as less innately capable.”⁴ Along the same lines, Carol Dweck has written extensively about the impact of a “fixed mindset,” or the belief that intelligence and ability are largely unchangeable.⁵ A group of British educational researchers sums up this perspective:

It is widely believed that the explanation for the differences between individuals is that the likelihood of people becoming unusually competent in certain fields of accomplishment depends upon the presence or absence of attributes that have an inborn biological component, and are variously labeled “gifts” or “talents” or, less often, “natural aptitudes.” It is thought that a young person is unlikely to become an exceptionally good musician, for example, unless he or she is among the minority of individuals who are, innately, musically “talented” or “gifted.”⁶

K. Anders Ericsson, an eminent researcher on developing expert performance through what he describes as “deliberate practice,” highlights similar findings about what many people believe about innate talent and performance. In an article in the journal *American Psychologist*, Ericsson and coauthor Neil Charness note that most people view the achievements of top performers in a variety of fields as so exceptional that this level of attainment must be attributed to unique inherent “gifts.”⁷

These cultural beliefs are absorbed by children as they grow and may influence their level of motivation, attitudes about their abilities, and, ultimately, academic outcomes. In fact, this *g*-factor theory, this fixed mindset, this “secret” of success—call it what you will—influences the “private universe” of many children and adults and thus their optimism about their future and performance in school, in work, and in life. If you believe that achievement results from innate ability and if you have no evidence that you are gifted or talented, why try?

Appreciating Brain Plasticity: The Key to Redefining Potential

We advocate for a quite different perspective on the potential of all people to lead happier and healthier lives and to achieve their personal and career goals. This view rests on an understanding that the human brain has tremendous capacity to change and improve in response to experience. As a result, virtually all people have the capacity to learn, to grow, and to improve at whatever skills they choose through a positive outlook and the use of effective strategies, persistent effort, and deliberate practice. While innate ability may be part of the puzzle, we submit that conscious, deliberate practice, the development of new skills, optimism, and resilience are what really separate successful people from those who do not achieve their aims. This conception of potential to lead a happier, healthier, and more fulfilling life is supported by a wide range of research explored in this book about the power of the brain to become smarter, in terms of increased skills in solving problems, applying creativity, and learning new things throughout the life span; the body to become healthier and stronger; and the spirit to become more optimistic.

We define *potential* as the neurocognitive capacity for acquiring the knowledge, skills, and attitudes to achieve a higher level of performance in any domain. In other words, potential represents the power for getting better at whatever you set as your goals by rewiring your brain and body with new outlooks, knowledge, skills, and abilities. The foundations of human potential are built permanently into the brain's readiness for learning from infancy throughout one's life and in the ability of the brain and body to continually adapt to new challenges and learning.

The Path to Positively Smarter

The expression *positively smarter* captures the essence of increasing well-being across three interconnected domains of happiness,

achievement, and wellness. In this book we will explore research and strategies to:

1. **Increase our positivity, optimism, and happiness** (also referred to as *subjective well-being*). Through the effective use of key strategies to change our attitudes and outlook, we can become happier and more optimistic more of the time. Scientists have pinpointed areas of the brain that are more active when people are optimistic, have a positive outlook, and exhibit resilience.⁸ Over the long term, these and other elements of emotional style can be improved by the application of practical strategies. These advances in knowledge about the physiological basis of optimism and happiness (explored in Chapter 2) can inform practical approaches for improving our resilience and coping skills in the face of hardship, our emotional and social intelligence, and our sense of well-being (Chapter 3).⁹ These changes, in turn, enhance cognitive performance and help us to be more creative and more successful at work, to have more fulfilling relationships, and to enjoy better health.
2. **Become functionally smarter for higher levels of achievement.** Our collective IQ, through the so-called *Flynn effect*, has increased over the last century, and we can continue to improve our individual intellectual performance by cultivating cognitive and metacognitive strategies. This purposeful approach to enhancing our thinking abilities, which we call *practical metacognition*, can help us learn new things more efficiently, make better decisions, solve problems more effectively, and create new ideas. The increase in cognitive skills, sense of efficacy, and success in school, in work, and in life pays an added dividend in the form of increased levels of optimism and happiness. Chapters 4 through 6 explore findings from mind, brain, and education research on “working smarter” by wielding cognitive and metacognitive strategies and improving your social intelligence with the aim of enhancing achievement and success.

- 3. Improve physical well-being, mood, and cognitive function through exercise and healthy nutrition.** In Chapters 7 and 8, we explore how healthy eating and regular exercise bolster physical and cognitive performance and improve mood and outlook. Making a habit of aerobic exercise, strength training, and good nutrition can produce lifelong health gains. In addition, exercise changes the brain in positive ways and is effective in improving mood. Regular physical activity is associated with improved quality of sleep, reduced fatigue, increased stamina, and lower anxiety. For some people, exercise may be as effective as medications in the longer term to treat mood disorders. A stronger body is also associated with enhanced cognitive performance in areas such as attention, memory, and problem solving.

All of these factors can be enhanced individually, and greater gains can be experienced through the synergy of improving them together so that we can become positively smarter, fitter, stronger, and better able to achieve important goals while experiencing a greater sense of well-being.

The capacity to realize higher levels of happiness, achievement, and physical health begins with your amazing brain, powered by some 86 billion neurons. Just one cubic centimeter of your brain has as many connections as there are stars in the Milky Way.¹⁰ Scientists have learned more about the brain in the last two decades than in the previous 200 years. These discoveries can have a positive and far-reaching impact on our lives, our work, our education, and our communities if and when these new understandings are used to inform policy and practice.

At the center of emerging scientific knowledge is one fundamental concept: Your brain and body are constantly changing in response to your thoughts, actions, and environment, and you have the power to steer those changes in positive directions. You can take charge of your thinking, attitudes, and behaviors in ways that affect:

Introduction

- Neurogenesis, the creation of new brain cells;
- Synaptogenesis, the forging of new connections and strengthening or weakening of networks of connections as a result of learning new knowledge or skills;
- Myelination, the formation of a substance that insulates and increases the speed of transmission of new learning and improves skills; and
- Angiogenesis, the expansion of your body's network of capillaries to improve the functioning of the brain and body.

We refer to the dynamic interactions that influence these factors as *neurocognitive synergy* to convey that through your conscious (or *cognitive*) recognition of your ability to take charge of your brain (*neuro*), you can wield a game-changing combination (*synergy*) to become more optimistic, functionally smarter and more productive, and healthier.

The research behind this concept informs, in part, the emerging field of educational neuroscience, which melds psychological and educational research and cognitive neuroscience to explore ways for enhancing teaching and learning. These findings also offer great promise to improve our personal and professional lives. Throughout this book, we will explore the research advances supporting the understanding that it is within your grasp to make steady gains if you are willing to commit to the sometimes hard work of deliberate practice, the learning of new knowledge, and the process of maintaining a happier outlook, developing your cognitive skills, and improving your physical well-being. These “upgrades” in attitude, thinking, and health habits in turn serve to sustain the behaviors that can have a positive influence in many areas of your life.

Learning about the brain's awesome power that can help each of us develop the knowledge and skills we need to achieve our goals is crucial. But to use that power to optimize our potential, we need to bring to the surface some deeply held misconceptions that may be holding us back.

Our Personal Introductions to the Science That Supports Ways for Becoming Positively Smarter

Our work together has focused on improving lives by applying the implications of research from fields including cognitive education; psychology; social cognitive and affective neuroscience; education; and well-being. We are codevelopers of curriculum for the master's and educational specialist degrees with majors in brain-based teaching and a doctoral minor in brain-based leadership with Nova Southeastern University. These programs are among the first in this emerging field, also known as educational neuroscience and mind, brain, and education.¹¹ The principles at the core of this text have informed our work on the graduate degree programs and the presentations we have delivered through the Center for Innovative Education and Prevention.

Earlier in his career, Marcus applied research from these diverse fields in his work with organizations from business, law enforcement, military, government, and education sectors. He led a three-year, statewide initiative for the Florida Department of Education, implementations in two large school districts through Florida Atlantic University supported by an Annenberg Challenge Grant, a statewide initiative in Texas, and an implementation on improving well-being with the Winter Park Health Foundation. Marcus has continued to discuss the ideas and research at the heart of becoming positively smarter as an author and international speaker on increasing creative and critical thinking skills, developing expertise, and enhancing achievement and well-being.

Donna began her career as a classroom teacher and then an educational and school psychologist who completed post-doctoral studies in structural cognitive modifiability. She led an initiative in her school district to teach students how to use cognitive strategies—to “learn how to learn”—which resulted in significant academic gains. Co-teaching these concepts with other educators led Donna to discover her passion for working as a teacher educator. In the intervening years, she has led community and district initiatives and given presentations to state and national

Introduction

policymakers that put some key concepts from this book into practice.

Our aim is to highlight ways research and theory from cognitive education, psychology, and educational neuroscience suggest that we can harness the brain's incredible capacity to change in ways that may enhance resilience, optimism, motivation, happiness, productivity, performance, and well-being. If you set your sights on any of these areas, you can achieve benefits through the sustained application of practical strategies. The grand vision of becoming positively smarter is informed by research about the interconnections of emotional and physical health and cognitive performance: It is possible to make gains in all of these areas and create a positive upward spiral that can produce positive changes in the brain and in turn lead to a greater sense of well-being.

Our perspective is from the field of education, and our focus is on sharing relevant research and practical ideas for putting implications of research into practice. We have assembled here emerging, exciting findings from a broad range of scientific inquiry to discover how each of us can achieve more of our unique potential to become happier and healthier and achieve more of our personal and professional goals. The practical applications we have shared with educators, parents, businesspeople, firefighters, police officers, military members, and others in helping professions begin with a stunning fact: Our capacity to become happier, functionally smarter, and healthier begins with our marvelous, malleable brains.

Notes

- 1 Eric R. Kandel. 2007. "The New Science of Mind." *Best of the Brain from Scientific American*. New York: Dana Press. Retrieved from <https://faculty.washington.edu/chudler/quotes.html>
- 2 Harvard-Smithsonian Center for Astrophysics. 1987. *A Private Universe* [DVD]. Cambridge, MA: Author.
- 3 Robert L. Sternberg, Linda Jarvin, and Elena L. Grigorenko. 2009. *Teaching for Wisdom, Intelligence, Creativity, and Success*. Thousand Oaks, CA: Corwin Press, p. 4.