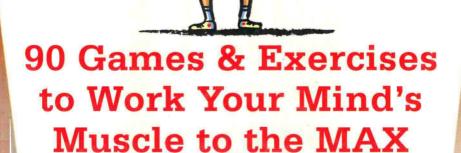
PROTEIN SHAKES

FOR THE

BRAIN



Michel Noir, Ph.D. & Bernard Croisile, M.D., Ph.D.

PROTEIN SHAKES BRAIN





Michel Noir, Ph.D. & Bernard Croisile, M.D., Ph.D.



Library of Congress Cataloging-in-Publication Data

Noir, Michel, 1944-

Protein shakes for the brain: 90 games and exercises to work your mind's muscle to the max / Michel Noir and Bernard Croisile. - 1st ed.

p. cm.

Includes index.

ISBN 978-0-07-162836-5 (alk. paper)

1. Logic puzzles. 2. Word games. 3. Intellect—Problems, exercises, etc. 4. Brain. I. Croisile, Bernard. II. Title.

GV1493.N65 2009

793 73-dc22

2009000963

Copyright © 2009 by HAPPYneuron, Inc. All rights reserved. Printed in China. Except as permitted under the United States Copyright Act of 1976, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of the publisher.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 CTP/CTP 0 9

ISBN 978-0-07-162836-5 MHID 0-07-162836-3

McGraw-Hill books are available at special quantity discounts to use as premiums and sales promotions or for use in corporate training programs. To contact a representative, please visit the Contact Us pages at www.mhprofessional.com.

PROTEIN SHAKES BRAIN

Why Does My Brain Need a Protein Shake?

Increasingly, scientific evidence tells us that our minds don't have to deteriorate as we age—there are things we can do now to dramatically increase the probability of staying mentally and physically fit throughout our lives. This is good news indeed, because mental fitness and agility are so directly connected to a good quality of life. Physical exercise, good nutrition, social connection with others, and mental stimulation all play important parts in ensuring that our brains remain sharp and agile.

Over the past 25 years, scientists and physicians affiliated with medical schools and universities all over the world have followed and tested large groups of people to try to understand why some people stay mentally sharp over the span of their lives and other people don't. As a result, we now have a significant body of scientific research in an area called "cognitive reserve." Cognitive reserve involves the brain's ability to create new neural pathways and connections that can be used as a mental savings account, a reserve to be drawn upon in times of need. The research supports the hypothesis that many people continue to operate at a high mental level throughout their lives by building these brain reserves.

Several studies support the hypothesis of cognitive reserve and reinforce the importance of good physical health in keeping the brain fit. One such study is the famous Nun's Study described in *Aging with Grace*, in which Dr. David Snowdon, a neurologist, and his colleagues followed 700 nuns over more than 20 years. Two extremely important findings have come out of this study: first, there is a link between vascular episodes, such as stroke and heart attack, and Alzheimer's and dementia; and second, stimulating intellectual activity can provide protection from many types of cognitive decline.

Other ongoing studies have come to similar conclusions. The Bronx Aging Study, led by neurologist Dr. Joe Verghese and published in *The New England Journal of Medicine*, has followed almost 500 people for more than 20 years, observing what they actually do in their lives and what the relationship is between these choices and brain health. The research has found that people who participated in mentally stimulating activities, such as interactive games and dancing, four times a week had a 65 to 75 percent better probability of remaining sharp than those who did not participate in these activities.

Dr. David Bennett at Rush University Medical Center has recently come to the same conclusion after following more than 2,000 people for years. Over time, 134 people died. None of them had been diagnosed with Alzheimer's or even mild cognitive decline. But 36 percent of them had the severe tangles and plaques of Alzheimer's. This positive news reinforces the "use it or lose it" philosophy; these people had built up enough brain reserves to show no clinical signs of disease, meaning they still exhibited good thinking skills.

We encourage you to challenge yourself to learn at every opportunity by learning a new language or a new musical instrument or new and more complex tunes with an old one, reading, dancing, or taking a class. These are all effective tools to keep your mind sharp. But sometimes your brain needs a quick shot in the arm, a quick burst of energy—that's why we developed *Protein Shakes for the Brain*. Doing the puzzles in this book is a quick and easy way to give your mind's muscle a little boost and keep those neural pathways growing.

Contents

Why Does My Bro	ain	١	le	ec	lo	t F	rc	ote	in	S	ho	ık	e?	ě	*	٠	,	×	.vii
JUST STARTING OUT Easy Exercises .			*	×	*	*			•		,	×			*	*	٠		. 1
GETTING FIT Medium Exercises			ř				ř	÷	ų	•	•	*	*		٠	*	٠	•	. 39
IRON MAN Hard Exercises .							36 7							*		٠	•	•	. 77
Solutions			÷	¥	•		•	×	ž	÷			ī		ě			, i	117

JUST STARTING OUX

Easy Exercises

Warm-Ups

Do you know the answers to these common-knowledge questions? Shake up your brain and find out.

1. Who wrote the short-story "The Fall of the House of Usher"?

	a. Emily Brontë	b. D. H. Lawrence	c. Edgar Allan Poe
2.	Which type of ship to America?	did Christopher Col	umbus use to sail
	a. schooner	b. caravel	c. trimaran
3.	Which sport is Kobe	e Bryant famous for?	,
	a. swimming	b. karate	c. basketball
4.	Which one of these	snakes is not deadly	y for humans?
	a. viper	b. cobra	c. rat snake
5.	Which country does cake, come from?	s tiramisu, a deliciou	us chocolate and coffee
	a. Italy	b. Spain	c. Romania
6.	What was the name	of Sherlock Holmes	s's famous friend?
	a. James	b. William	c. Watson
7.	What color do you §	get when you mix ye	ellow and blue together?
	a. purple	b. red	c. green
8.	What is celebrated i	in the United States	on July 4th?
		the Declaration of In ne Declaration of Ind	
		n the Revolutionary	

Warm-Ups

Do you know the answers to these common-knowledge questions? Shake up your brain and find out.

	. ,			
1.	Which one of these a. spider		c.	butterfly
2.		loved Simpsons cart b. Bob Kane		n family? Stan Lee
3.	Which one of these a. Donald Duck	characters did Walt b. Pluto		sney <i>not</i> create? Popeye the Sailor
4.	During which centua. 17th	nry did Mozart live? b. 18th	c.	19th
5.	Which famous battl a. Bull Run	e did General Custer b. Little Bighorn		
6.	Which country orig	inated the sauna? b. Norway	c.	Sweden
7.	Which animal is co a. cat	nsidered man's best b. cow		end? dog
	Who directed the m	novie <i>Jurassic Park</i> ? h Steven Spielberg	C	Robert Altman

Daily Workout

Can you remember in which year these historical events occurred?

1.	The first man on the moon
2.	The sinking of the Titanic
3.	The Boston Tea Party
4.	The Wall Street crash
5.	The discovery of America by Christopher Columbus
6.	The end of the Vietnam War
7.	The fall of the Berlin Wall
8.	The Declaration of Independence

Daily Workout

Can you remember in which year these historical events occurred?

1 The start of World War II

1.	The start of world war ii
2.	The battle of the Little Bighorn
3.	The Chernobyl disaster
4.	The death of Princess Diana
5.	The Los Angeles Olympic Games
6.	The start of Ronald Reagan's presidency
7.	The crowning of Queen Elizabeth II of the United Kingdom
8.	The death of William Shakespeare

Interval Training

Can you put back together the 20 words that have been split into two syllables and spread across the grid? Watch out, each syllable can be used only once!

TIP: All words belong to the category "Fruits and Vegetables."

fruit	ly	sweet	beet	nach
pi	pars	ca	bread	go
me	dur	chee	ki	per
pars	kin	on	lon	rrot
man	wi	root	le	quat
ion	barb	mon	ley	tuce
ckle	kum	pump	corn	pep
rhu	nip	let	ban	spi

Your answers:

1	11
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
	20

Interval Training

Can you put back together the 20 words that have been split into two syllables and spread across the grid? Watch out, each syllable can be used only once!

TIP: All words belong to the category "Capital Cities."

Lon	A	Li	lin	rich
ney	Ma	ran	Pa	blin
lo	Bei	Zu	ro	thens
War	Os	lin	jing	saw
don	Ber	Nas	noi	Teh
drid	to	Syd	ma	rain
Tal	Bah	Mos	sau	Cai
cow	Ha	Qui	Du	ris

Your answers:

1	11,
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
10	20

Lateral Rows

For each row, circle which of the three words is spelled correctly.

1.	insolvancy	insolvency	insulvency
2.	valuable	valewable	valluable
3.	accordance	acordance	accordence
4.	occurrence	ocurrence	occurrance
5.	insaucing	insourcing	insourssing
6.	literature	litterature	literiture
7.	oceanollogy	oceanology	oshenology
8.	manigement	managemant	management
9.	yogourt	yoggurt	yogurt
10.	trainee	trainy	trainnee
11.	occupency	occupancy	occupenssy
12.	hazard	hayzard	hazad
13.	occlusive	oclusive	occlussive
14.	intergrate	integreat	integrate
15.	yungster	youngster	youngsta
16.	azure	azzure	azurre

Lateral Rows

For each row, circle which of the three words is spelled correctly.

1.	vitamin	vittamin	vitammin
2.	babywhere	babywear	babiwear
3.	dabbler	debbler	dabler
4.	tobaco	tobbaco	tobacco
5.	weakend	weekend	weekkend
6.	welth	wealth	wellth
7.	fruitful	frootful	fruitfull
8.	jockee	jocky	jockey
9.	abilitty	abillity	ability
10.	beach	bich	beatch
11.	ozon	ozone	osone
12.	hiccup	hickup	hicup
13.	geneealogy	geneallogy	genealogy
14.	varsitty	varsity	varsety
15.	junior	joonior	junier
16.	docter	doctor	docktor