# SOME LIVING THINGS: FIRST LESSONS IN PHYSIOLOGY

Published @ 2017 Trieste Publishing Pty Ltd

#### ISBN 9780649707737

Some Living Things: First Lessons in Physiology by Ella B. Hallock & C. B. Gilbert

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

## **ELLA B. HALLOCK & C. B. GILBERT**

# SOME LIVING THINGS: FIRST LESSONS IN PHYSIOLOGY



## SOME LIVING THINGS

### FIRST LESSONS IN PHYSIOLOGY

BY

#### ELLA B. HALLOCK

FORMERLY STATE INSTITUTE INSTRUCTOR IN PHYSIOLOGY AND HYGIENE
IN NEW YORK AND MASSACHINETTS

EDITED BY

C. B. GILBERT WESTERN RESERVE UNIVERSITY

NEW YORK

A. S. BARNES & COMPANY
1908

## CONTENTS

	SOME LIVING T	н	NG	S				
Lxs				_			1	AGE
1	Carlo and the Rock				4.0		31422	3
9	Other Animals besides Carlo	9 8		347		8	12	5
3	Carlo and the Rock Other Animals besides Carlo . Plants					8	8	8
16.27								
	PRINCIPAL PA	R7	S					
4	The Outside Parts		s ex	224	*8	90	105	13
	THE LIMBS							
5	Motion from Place to Place .	3 3	8 88		\$3	•	8%	16
6	The Arms or Front Limbs	. 4			90	•		18
7	The Parts of the Arms			27.0			200	20
8	The Bones of the Arm and Ha The Muscles of the Arm and I The Work of the Hands	nd		000 00 <b>0</b> 00	•			21
9	The Muscles of the Arm and H	Iar	id .		22			23
10	The Work of the Hands						12	24
11	The Care of the Hands	8 4	, <u>k</u>		20		502	26
	A Story Told by the Arn	18	and	Ha	nds			
	A Ronch Port						0.4	29
12	The Legs or Hind Limbs The Bones of the Leg The Muscles of the Leg The Human Foot				•	100		31
13	The Bones of the Leg							33
14	The Muscles of the Leg							34
15	The Human Foot				86		: :::	36
16	The Feet and the Shoes	2 1			40	000	114	37
17	Correct Uses of the Legs and F	ee	ŧ.		30	÷		39
	THE TRUNK							
18	The Trunks of Lower Animals					92		42
19	The Human Trunk	8 3	. 17	11.0	2.0	12	10.00	44
20	The Use of the Trunk				*			45
21	The Care of the Trunk		er 11.5			-2		48

### iv

#### CONTENTS

Les	THE HEAD AND THE NECE	PAGE
	Heads and Necks of Lower Animals and of Man	52
042	The Use of the Human Head	54
0.4	The Uses of the Human Head	94
34	The fluman Brain	99
CC	The Care of the Parts of the Head	51
20	Two Foes of the Brain	99
	A Reading Lesson — The Wreck of the	203
	"Clara Em" — Phelps	61
	THE ORGANS OF SPECIAL SENSE	
	AND OF SPEECH	
	THE SKIN	
27	The Sense of Touch	67
28	The Coverings of Lower Animals	69
29	The Sense of Touch	70
30	The Care of the Skin	73
~~	The Care of the Skin	
	Life" — Keller	74
	Тие Мости	0.5.558
01		MG
.51	The Sense of Taste	10
	Horses — McCulloch-Williams , . ,	ma
	Tiorses — Siccination - Francis	10
	THE NOSE	
32	The Sense of Smell	80
33	The Sense of Smell	81
34	The Human Nose	88
	THE EAR	0.000
99	The Sense of Hearing	85
00	A Calendar of Sounds	87
90	The Ears of Lower Animals	87
31	The Human Ear,	89
38	The Care of the Ears	92
	A Reading Lesson - From "The Last of the	
	Mobicans ~ Cooper	93

	z 94 12
	CONTENTS v
	LESSON THE EYE PAGE
	39 The Sense of Sight 95
	A Seeing Contest 97
	A Seeing Contest
	41 The Human Eye 100
	42 The Care of the Eyes 102
16	Тик Уотск
	43 The Voices of Lower Animals and of Man 105
	44 The Use of the Human Voice 106
	17 The Ose of the Iranian (Oct 1 , 1 , 1 , 1 , 100
	PRINCIPAL NEEDS
	Air
	45 Air and the Senses 111
	46 The Uses of Air
	47 How Air Enters Living Things 116
	48 The Lungs
	49 The Heart and the Blood Vessels 119
	50 Pure Air
	Breathing Exercises 124
	51 The Care of the Heart and the Lungs 125
	Food
	52 Two Kinds of Food 127
	53 Plant Food
	54 Wheat
	55 From Wheat to Bread — A Picture-Story 131
	From Wheat to Bread — A Story Told in Pan-
	tomime 192
	56 Animal Food
(9)	57 Mineral Matter and Fuel Foods 135
	58 Flesh Foods
	59 First Steps in Eating
	60 The Human Mouth 140
	61 The Digestive Organs
	62 Why we Eat 145
	63 Three Things to Remember about Eating 147
	64 Three More Things to Remember 149

#### CONTENTS

vi

LES	NAT WAT	CER								PAGE
250										152
	Uses of Solid and Vaporou	. 1	For	me	of	w	0 101		•	154
67	One Use of the Liquid Fo	TELL		W	Tati	AT.	acci			155
01	A Reading Lesson—	N	o Pr	mol	D	ei n	· .	*	•	100
										158
68	Richas Drinking Water . Water for Cleansing Purp	LAG	776	*	•		•	*	•	159
ga	Water for Classica Poor	•		œ	•		•	•	•	162
70	The Position of Water	OSI		*	3		•	•	٠	164
10	The Beauty of Water .			3.0	3.0	13	50	*		104
	Sunsi									
71	A Friend to Living Thing	83		73						167
72	A Friend to Living Thing Sunshine in Buildings .					100			9	169
73	Gifts from the Sun				$\widetilde{\bullet}$	-	200	40		173
	Gifts from the Sun A Reading Lesson—"The	e S	unl	œa	m"	_	He	mai	28	175
	Сьот									53
74	The Uses of Clothing .									177
75	The Material of Clothing		513	**	25		10	7.0		179
76	The Material of Clothing The Style and the Care of	ic	lat	hin	C.	•	- 10		ě	181
	WORK AN				5	•	•	٠	•	101
~~										101
77	Rest Follows Work	*	4	83					٠	184
78	The Manner of Working	÷	•	•	$(\bullet)$		800	*		187
79	Exercise and Games .	9	•	*	3.5			*	*	189
80	The Manner of Resting  A Reading Lesson -	2		3.53	0.00		12.0		•	192
	A Reading Lesson -	- 5	· H	est	" _	-6	oet	he	٠	194
	MISCELLA	AN	EC	US	3					
	TEMPERANCE	T	EAG	н	NGS					*0
81	Opinions of Athletes .	2		201	323	32		23	88	197
82	Opinions of Athletes . Opinions of Workmen .	9		80		ij.	백값			199
83	Opinions of Scientists .	•	•	•						201
84		•	•	**	9.00		•	•	*	203
85	Where Alcohol Comes fro		•	*3	*			*		205
OU						12	133	٠	Ť	200
900	EMERGI									-
86	First Help to the Injured Good Health Club			•	120		•	•		209
	Good Health Club	•							0	213
	Daggard of Canauth									6014

#### TO THE TEACHER

In the Courses of Study of many schools the physiologic topics suggested for study in the lower grades are, The External Parts of the Body, The Organs of Special Sense, and The General Needs of the Body. These topics afford an opportunity for either a broad, interesting, useful work, or a narrow, childish, almost valueless one. There are great possibilities in the topics, but it is necessary for some one to expand them into definite lessons for the busy teacher. Take, for example, the topics relating to the arm. The pupils are to observe the parts, name them, and notice their use. This should be only the beginning of the work, however. If the teacher were to stop here, the work would be less than half Not only the arms of man, but the arms of the dog, the horse, the bird, the frog, and the fish, should be studied. The pupils should find them, notice how they differ, the different kinds of work they do, how the different arms are suited

to the work which they must do, and especially the wonderful human hand. Then they should consider the care and training that are necessary in order that the hands may be strong, beautiful, and skilful.

The interest and benefit of this correlated work to pupils are sufficient proof that there should be a place for it, but the teachers, in meeting the heavy demands made upon them to-day, have not time to prepare oral lessons on these topics. Hence, with many misgivings, I have made the attempt to supply pupils, by means of a textbook, with such questions, directions, and information as teachers would use in presenting oral lessons.

Briefly stated, in preparing the lessons I have had the following aims in mind: 1. To study the human body in relation with other living things and the things on which it depends for life; 2. To present subjects as a true teacher would present them orally — not so much by telling facts as by directing the pupils in their observations, thought, and expression; 3. To teach about the human body in such a manner and in such relations that the pupils will be interested in the structure and work of its different parts; 4. To relate the lessons on structure and work to healthful living by