

**SCIENCE  
READERS. BOOK II**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649534722

Science Readers. Book II by Vincent T. Murché

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](http://www.triestepublishing.com)

**VINCENT T. MURCHÉ**

**SCIENCE  
READERS. BOOK II**



# SCIENCE READERS

BY

VINCENT T. MURCHÉ, F.R.G.S.

AUTHOR OF 'THE TEACHERS' MANUALS OF OBJECT LESSONS IN ELEMENTARY SCIENCE,' 'OBJECT LESSONS IN GEOGRAPHY,' 'OBJECT LESSONS IN DOMESTIC ECONOMY,' 'OBJECT LESSONS FOR INFANTS,' 'OBJECT LESSONS IN ELEMENTARY SCIENCE AND GEOGRAPHY,' 'OBJECT LESSONS IN NATURE KNOWLEDGE,' 'GEOGRAPHY READERS,' 'DOMESTIC SCIENCE READERS,' 'READERS IN ELEMENTARY SCIENCE AND GEOGRAPHY,' 'NATURE KNOWLEDGE READERS,' ETC.

## BOOK II

MACMILLAN AND CO., LIMITED  
ST. MARTIN'S STREET, LONDON

1908

Educ T 20339.08.590  
57.

First Edition April 1895  
Reprinted November 1895, January and June 1896, 1897 (twice), 1899, 1900,  
1901, April and November 1903, 1905, 1907, 1908

HARVARD COLLEGE LIBRARY  
GIFT OF  
GINN & COMPANY

# PREFACE

MARCH 17, 1927

IN this, the second volume of the series, our three children, in their evening home amusements, are still following their teacher's lessons, by easy, simple, and natural stages.

The great aim has been to cultivate, from the first, habits of observation and correct reasoning. To this end every lesson is built upon some previous teaching, and the gradual development of the scheme proceeds on a sure foundation.

The author relies upon this, together with the constant recapitulation of acquired truths, and the natural bond of sympathy between child and child, to make these readings attractive, and secure the solid advancement of his young readers, without any appreciable effort on their part.

The short summaries of the lessons at the end of the book will be found invaluable aids, as they contain, in a nutshell, all the salient points of the teaching.

# CONTENTS

LESSON	PAGE	LESSON	PAGE
1. Porous Bodies . . . . .	9	32. Iron Ore . . . . .	58
2. Sponge—and its Uses . . . . .	6	33. Iron . . . . .	61
3. The Sponge . . . . .	9	34. The Cow . . . . .	64
4. Filters . . . . .	12	35. Cast-Iron . . . . .	68
5. The Poor Man's Filter . . . . .	15	36. Milk, Butter, Cheese . . . . .	71
6. Soluble . . . . .	18	37. Wrought Iron . . . . .	78
7. Soluble Substances . . . . .	21	38. The Horse . . . . .	76
8. Starch . . . . .	23	39. Steel . . . . .	82
9. What Starch is . . . . .	25	40. The Rabbit . . . . .	84
10. Starch for Food . . . . .	28	41. Copper . . . . .	88
11. Soluble and Insoluble . . . . .	31	42. The Rabbit at Home . . . . .	91
12. Soap . . . . .	33	43. Lead . . . . .	94
13. Corn . . . . .	35	44. The Monkey . . . . .	97
14. Kinds of Corn . . . . .	38	45. Tin . . . . .	100
15. Adhesive . . . . .	41	46. Three Classes of Monkeys . . . . .	103
16. Cements . . . . .	43	47. Zinc . . . . .	108
17. Wheat and Rice . . . . .	46	48. The Mole . . . . .	110
18. Fusible . . . . .	48	49. Silver . . . . .	114
19. Maize . . . . .	51	50. Gold . . . . .	117
20. About Metals . . . . .	53		
21. Some More about Metals . . . . .	56	Summary of Lessons . . . . .	121

## BOOK II

### Lesson I

#### POROUS BODIES

FRED and Willie came home very proud from school one afternoon. 'What do you think, Norah?' said Fred. 'We have both been put up into the next class. Teacher picked out a few of the best boys to go up. I am so glad Will was put up with me.'

'And only think, Norah,' said Willie. 'We shall still have our jolly object lessons. We had a lesson this afternoon about porous bodies. Shall we tell you all about it, Norah?'

'Oh, do, please,' said Norah.

'Well then,' said Fred, 'you must

first tell us all the porous bodies you can remember.'

'Oh yes,' said Norah. 'Sponge, bread, sugar, chalk, dry clay, charcoal, and coke are all porous. They all suck up liquids into their pores.'

'Quite right,' said Fred. 'Now watch me. This is a tumbler about half-full of turpentine. This piece of cane has been standing in the tumbler a few minutes. See what happens when I put a match to the top of the cane.'



'Why, it bursts into a flame at once,' said his sister. 'How is that?'

'I'll show you,' said Fred, 'just as teacher showed us. Look at the holes in the bottom of the cane.'

'Then I suppose,' said Norah, 'the pores of the cane absorb the turpentine, and take it up to the top.'

'That's just it,' said both the boys. 'The cane is porous.'



‘Now look here. Do you know what this is?’ said Fred.

‘It is a piece of the wick of the lamp,’ said Norah.

‘See,’ said Fred, ‘I will dip it into this water. Now when I take it out and squeeze it, some water runs out of it. What does that prove, Norah?’

‘It proves,’ said she, ‘that the wick is porous, and that it absorbs liquids.’

‘Quite right,’ said Fred.

‘Now think of the wick in the lamp itself. The lower part of the wick is in the oil, but it is the upper part that gives the light.’

‘Oh, I think I see,’ said Norah; ‘the wick must be something like the cane. I suppose it absorbs the oil, and carries it up to the top, where it burns.’

‘That is right, Norah,’ said Willie; ‘and a candle burns in the same way. The heat melts the tallow into a liquid.’



The wick absorbs the liquid tallow, and carries it up to the top, where it burns.'

## LESSON II

### SPONGE—AND ITS USES

'Oh, boys,' cried Norah, as she rushed into the room, 'do come with me at once. Our dear old Ponto has cut his foot in the garden. The poor old fellow is in such pain, and it is bleeding very badly.'

'All right, Norah,' said Fred. 'You run and get a sponge and some warm water, Will.'

In a very short time they were all round their dear old playfellow. Fred bathed the foot with the warm water, while the others stroked him, and tried to make him forget the pain. The foot was, as Norah had said, very badly cut.

The children bound it up with some clean linen rag, and then took him into the kitchen. There they made him lie

down in a warm corner of the room, while they sat and watched him.

‘What a good quiet old fellow he was



all the time we were washing his foot,’ said Norah.

‘Yes,’ said Fred, ‘but I took care not to hurt him. Nothing would have done it so well as a sponge.’

‘Suppose we have a talk about the