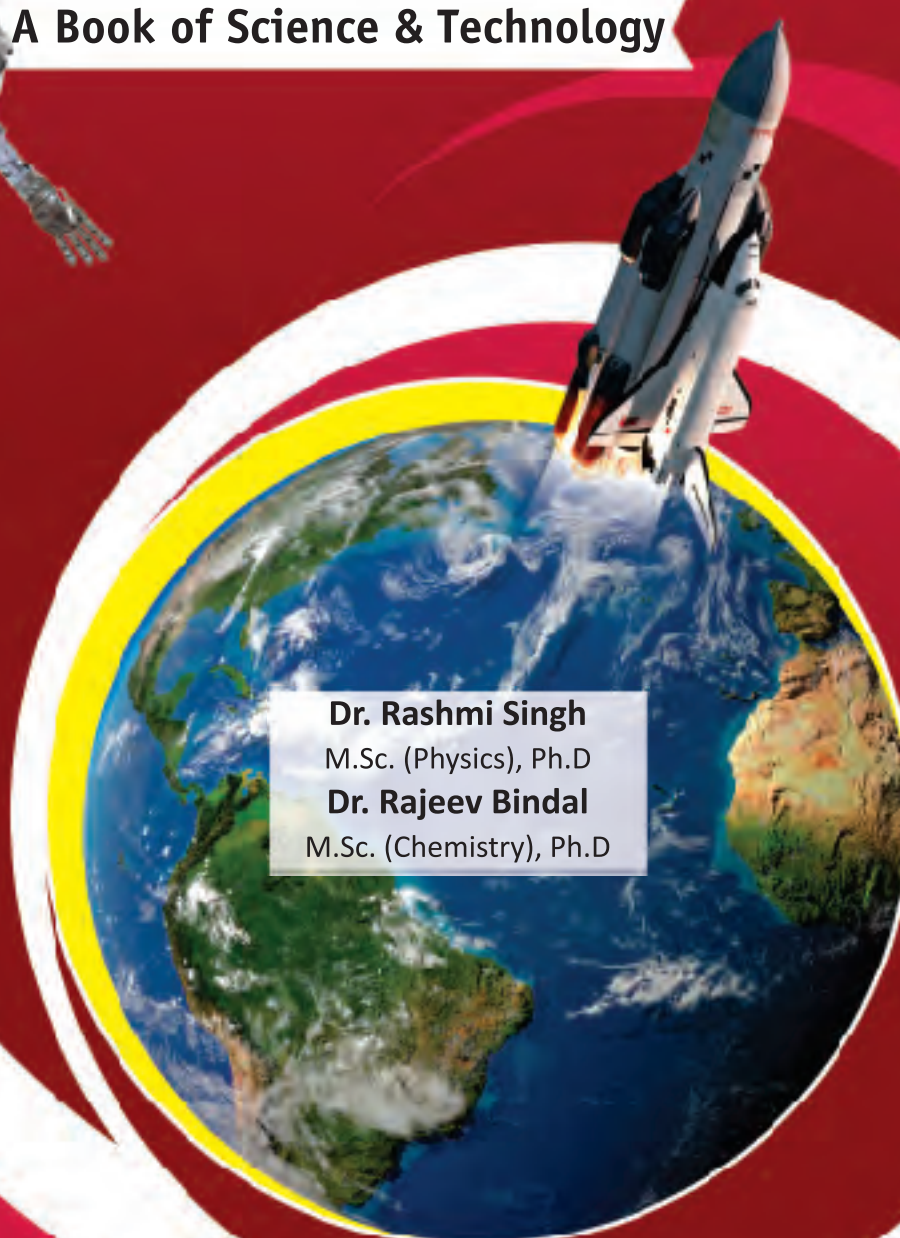




Marching Ahead

A Book of Science & Technology



Dr. Rashmi Singh
M.Sc. (Physics), Ph.D
Dr. Rajeev Bindal
M.Sc. (Chemistry), Ph.D

8

Published by :



Naman Publishing (India) Pvt. Ltd.

A Leading Publisher of Children Books

7/209, Tulsi Chabutra, Tajganj, Agra

Mobile : +91-9837004559, 9927094441,
9927094442

Fax : 0562-2481926

E-mail : namanpublishing@yahoo.com

New Edition

© All rights reserved.

No part of this book may be reproduced or copied in any form or by any means (graphic, electronic or mechanical, including photocopying, recording, taping, or information retrieval system) or reproduced on any disc, tape, perforated media or other information storage device, etc., without the written permission of the publishers.

Every effort has been made to avoid errors or omissions in this publication. In spite of this, some errors might have crept in. Any mistake, error or discrepancy noted may be brought to our notice and it shall be taken care of in the next edition. It is notified that neither the publishers nor the author or seller will be responsible for any damage or loss of any kind, in any manner, therefrom.

Series Editor :
Sushil Kumar Singhal
Rajendra Shukla

Designed by :
Mahi Graphics

Printed at :

The contents, transparencies, illustrations and layout of this book are the sole property of NAMAN PUBLISHING (INDIA), Agra and are copyrighted. Any reproduction in whole or in part in any form what so ever is strictly prohibited.



Preface



The present series, **Marching Ahead**, has been composed by keeping in mind the essentiality of the knowledge of science in the modern era, and is based on the latest syllabus and guidelines issued by the **National Council of Educational Research and Training (NCERT)**.

In these books, the process of learning science is made more effective and enjoyable.

Salient features of the series...

Use of simple and lucid language according to the mental status of the students.

A number of precise illustrations and tables have been included for explaining the contents of the chapter.

- ❖ Information regarding the various headings of each chapter under **Contents of the Chapter**.
- ❖ Simple experiments related with the chapter are outlined under the heading **Activity**.
- ❖ Added information has been provided under **Interesting Facts**.
- ❖ The summaries at the end of each chapter are meant as aid to memory under the heading **Highlights**.
- ❖ The **Exercise** given in each chapter is comprehensive, thorough and of every possible kind.
- ❖ **Project Work** for the students at the end of each chapter.
- ❖ Two **Model Test Papers** to test the comprehension of principles and processes adequately.

With valuable support and encouraging inputs, we hope that these books will help the young learners develop an abiding interest in the environmental phenomena.

We look forward to any other suggestions or criticisms aimed at further improvement of the books in this series.

– *Publisher/Author*



Contents



1. Crops, Food Management and Production	5
2. Microorganisms	17
3. Endocrine System and Adolescence	29
4. Cell Structure and Functions	34
5. Reproduction	41
6. Plastic and Synthetic Fibres	46
7. Carbon and Its Compounds	55
8. Combustion and Fuels	64
9. Metals and Non-metals	72
10. Conservation of Plants and Wildlife	82
11. Force and Pressure	86
12. Friction	96
13. Sound	100
14. Light Through Human Eye	109
15. Our Solar System and Earthquakes	113
16. Chemical Effects of Electric Current	124
17. Air and Water Pollution	128
> Model Test Paper – 1	133
> Model Test Paper – 2	135