MATH-MAGIC

Book 2
Textbook in Mathematics for Class II



0219 - MATH MAGIC

Textbook for Class II

ISBN 81-7450-679-9

First Edition

February 2007 Phalguna 1928

Reprinted

PROPERTY AND ADDRESS OF THE PROPERTY OF THE PR	
November 2007	Kartika 1929
January 2009	Magha 1930
November 2009	Kartika 1931
January 2012	Magha 1933
January 2013	Pausa 1934
November 2013	Kartika 1935
November 2014	Agrahayana 1936
November 2017	Agrahayana 1939
December 2018	Agrahayana 1940
September 2019	Bhadrapada 1941
January 2021	Pausa 1942

PD 300T RSP

© National Council of Educational Research and Training, 2007

₹65.00

Printed on 80 GSM paper with NCERT watermark

Published at the Publication Division by the Secretary, National Council of Educational Research and Training, Sri Aurobindo Marg, New Delhi 110 016 and printed at Dec Kay Printers, 5/34, Kirti Nagar, Industrial Area, New Delhi Pincode - 110 015

ALL RIGHTS RESERVED

- No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior permission of the publisher.
- This book is sold subject to the condition that it shall not, by way of trade, be lent, re-sold, hired out or otherwise disposed of without the publisher's consent. In any form of binding or cover other than that in which it is published.
- The correct price of this publication is the price printed on this page. Any revised price indicated by a rubber stamp or by a sticker or by any other means is incorrect and should be unacceptable.

OFFICES OF THE PUBLICATION DIVISION, NCERT

NCERT Campus Sri Aurobindo Marg New Delhi 110 016

Phone: 011-26562708

108, 100 Feet Road Hosdakere Hall Extension Bariashankari III Stage Bengaluru 560 085

Phone: 080-26725740

Navjivan Trust Building P.O.Navjivan Ahmedabad 380 014

Phone: 079-27541446

GWC Campus Opp. Ohankal Bus Stop Panihati Kolkata 700 114

Phone: 033-25530454

CWC Complex Maligaon Guwahati 781 021

Phone: 0361-2674869

Publication Team

Head, Publication

: Anup Kumar Rajput

Division

Chief Editor : Shveta Uppal

Chief Production

Arun Chitkara

Officer

Chief Business

Vipin Dewan

Manager (In charge)

Editor : Bijnan Sutar

Assistant Production : Mukesh Gaur

Officer





FOREWORD

The National Curriculum Framework (NCF), 2005, recommends that children's life at school must be linked to their life outside the school. This principle marks a departure from the legacy of bookish learning which continues to shape our system and causes a gap between the school, home and community. The syllabi and textbooks developed on the basis of NCF signify an attempt to implement this basic idea. They also attempt to discourage rote learning and the maintenance of sharp boundaries between different subject areas. We hope these measures will take us significantly further in the direction of a child-centred system of education outlined in the National Policy on Education (1986).

The success of this effort depends on the steps that school principals and teachers will take to encourage children to reflect on their own learning and to pursue imaginative activities and questions. We must recognise that given space, time and freedom, children generate new knowledge by engaging with the information passed on to them by adults, Treating the prescribed textbook as the sole basis of examination is one of the key reasons why other resources and sites of learning are ignored. Inculcating creativity and initiative is possible if we perceive and treat children as participants in learning, not as receivers of a fixed body of knowledge.

These aims imply considerable change in school routines and mode of functioning. Flexibility in the daily time-table is as necessary as rigour in implementing the annual calendar so that the required number of teaching days are actually devoted to teaching. The methods used for teaching and evaluation will also determine how effective this textbook proves for making children's life at school a happy experience, rather than a source of stress or boredom. Syllabus designers have tried to address the problem of curricular burden by restructuring and reorienting knowledge at different stages with greater consideration for child psychology and the time available for teaching. The textbook attempts to enhance this endeavour by giving higher priority and space to opportunities for contemplation and wondering, discussion in small groups, and activities requiring hands-on experience.

National Council of Educational Research and Training (NCERT) appreciates the hard work done by the Textbook Development Committee responsible for this book. We wish to thank the Chairperson of the Advisory Committee, Professor Anita Rampal and the Chief Advisor for this book, Professor Amitabha Mukherjee for guiding the work of this committee. Several teachers contributed to the development of this textbook; we are grateful to their principals for making this possible. We are indebted to the institutions and organisations which have generously permitted us to draw upon their resources, material and personnel. We are especially grateful to the members of the National Monitoring Committee, appointed by the Department of Secondary and Higher Education, Ministry of Human Resource Development under the Chairpersonship of Professor Mrinal Miri and Professor G.P. Deshpande, for their valuable time and contribution. As an organisation committed to the systemic reform and continuous improvement in the quality of its products, NCERT welcomes comments and suggestions which will enable us to undertake further revision and refinement.

New Delhi 20 November 2006 Director
National Council of Educational
Research and Training





TEXTBOOK DEVELOPMENT COMMITTEE

CHAIRPERSON, ADVISORY COMMITTEE FOR TEXTBOOKS AT THE PRIMARY LEVEL

Anita Rampal, Professor, Department of Education, Delhi University, Delhi

CHIEF ADVISOR

Amitabha Mukherjee, *Director*, Centre for Science Education and Communication (CSEC), Delhi University, Delhi

MEMBERS

Anita Rampal, Professor, Department of Education, Delhi University, Delhi

Asha Kala, Primary Teacher, MCD School, Krishi Vihar, G.K. Part I, New Delhi

Asmita Varma, Primary Teacher, Navyug School, Lodhi Road, New Delhi

Bhavna, Lecturer, DEE, Gargi College, New Delhi

Dharam Parkash, Professor, CIET, NCERT, New Delhi

Hema Batra, Primary Teacher, CRPF Public School, Rohini, Delhi

Jyoti Sethi, Primary Teacher, The Srijan School, Model Town, Delhi

Kanika Sharma, Primary Teacher, Kulachi Hansraj Model School, Ashok Vihar, Delhi

Prakasan V.K., Lecturer, DIET, Malappuram, Tirur, Kerala

Preeti Chadha Sadh, Primary Teacher, Basic School, CIE, Delhi University, Delhi

Suneeta Mishra, Primary Teacher, N.P. Primary School, Sarojini Nagar, New Delhi

MEMBER-COORDINATOR

Inder Kumar Bansal, Professor, DEE, NCERT, New Delhi

ILLUSTRATIONS AND DESIGN TEAM

Srivi Kalyan, Harvard

Sougata Guha, The Srijan School, Model Town, Delhi

S. Nivedita, Chennai

Anita Varma, Bangkok

Sujasha Dasgupta, Gurgaon

Arup Gupta, New Delhi

Rajiv Gautam, New Delhi

Cover Design: Srivi Kalyan



ACKNOWLEDGEMENTS National Council of Educational Research and Training (NCERT) thanks the following persons and institutions for their contribution towards this textbook. Special thanks are due to the Centre for Science Education and Communication (CSEC), Delhi University, for providing academic support and hosting all the textbook development workshops, The teams were fully supported by the staff and put in tremendous effort through long working hours even on holidays. The Council gratefully acknowledges the contributions of Sandeep Mishra for the voluntary technical support and of Sadiq Saced, DTP Operator: Pratul Kumar Vasistha, Copy Editor: Binod Kumar Jena, Proof Reader and Shakamber Dutt, Computer Station Incharge, in shaping this book, This book has drawn upon ideas from existing materials, such as Worksheets for Class II (School Mathematics Project, CSEC) and Mathematics: A Textbook for Class II (SCERT, Delhi). The Council also acknowledges the following teachers-Indira Ramesh, Sandhya Kumar, P.K. Abdul Lathif and Cheggareddy F.C.-for participating in discussions and some book development workshops. The support offered by K.K. Vashishtha. Professor and Head, Department of Elementary Education, NCERT is also gratefully acknowledged.



A Page to Cut Out

Your Game Board

	400					()		N S S	100 mg		
9	91	92	93	94	95	96	97	98	99	100	1
	81	82	83	84	85	86	87	88	89	90	
	71	72	73	74	75	76	77	78	79	80	
	61	62	63	64	65	66	67	68	69	70	
	51	52	53	54	55	56	57	58	59	60	
	41	42	43	44	45	46	47	48	49	50	
	31	32	33	34	35	36	37	38	39	40	
	21	22	23	24	25	26	27	28	29	30	
	11	12	13	14	15	16	17	18	19	20	
Start	1	2	3	4	5	6	7	8	9	10	

Use this board to play games like those given on page 79 and page 83. You can also make your own games by changing the rules.