

A COURSE IN MATHEMATICS



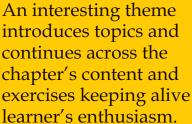
Encyclopædia Britannica, with its indisputable reputation as a world reference authority for more than two centuries, presents *Mathcraft*, a series of nine Mathematics books.

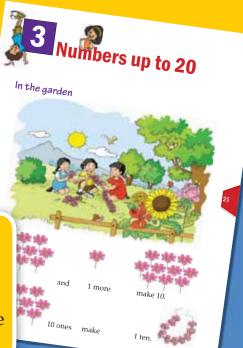
This includes a primer for the Kindergarten and eight textbooks for Classes 1 to 8.

Implementing the National Curriculum Framework 2005, the series focuses on

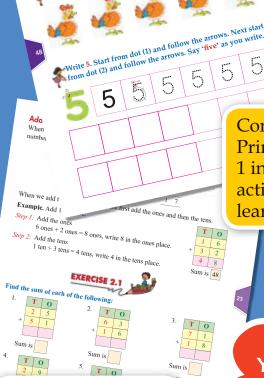
- Learning mathematical concepts outside the classroom
- Interactive study approach that helps self learning
- Activities built around real-life experiences
- Opportunities to reason and analyse
- Spiral sequencing of concepts
- Inclusion of cartoons and stories to make learning attractive

Mathcraft is designed to develop in students an enthusiasm for the craft of numbers, quantity, and space.





Maths Lab Activity



The Primer and

Books 1&2 are in workbook format to lighten learner load.

Content of the Primer and Book 1 initiates both active and passive learning.

Young learner appeal in Primer to Book 5

Abundant in-text activities, jokes, along with games in MathsLab pages for learners to enjoy and learn



Playing with Numbers

Addition of two or more numbers gives us another number. The numbers which are added are called addents and the new number thus obtained is called the sum. For example, 34670 + 12345 = 47015

Hers. 43670 and 12345 are called addents and 47015 is called the sum of 34670 and 12345. are grumbers are added in the same way as the small numbers.

n we add three numbers, we can add any two hers first and then add the third number to am. In other words, we can group any two of hree numbers to find the sum of the

Interesting

appetizers begin

learner-interest.

each chapter, whetting

Ask your friend to tell his or her date of birth. L it be 6 August 1999. In the above list the number for August month is 2; the date of birth is 6; the year ends with 99. Divide 99 by 4 (to take leap years) and take the quotient. The quotient here will be 24.

Now, add all these four numbers:

2+6+99+24=131.

Divide 131 by 7 and take the remainder. It will be 5. So, the day on your friend's birthday will be Friday (Sunday for 0, Monday for 1, Tuesday for 2, Wednesday for 3, Thursday for 4, Friday for 5, Saturday for 6).

Best of luck for your magic with numbers

mathematical

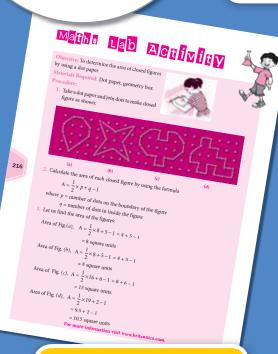
Mental math drilling in each chapter to instill the

skill of quick calculations

Higher Order Thinking Skills (HOTS) interspersed frequently include problems that trigger analytical reasoning.



Enjoyable cartoons and jokes inject humour into the classroom.



Maths-Lab Activity in each chapter facilitates hands-on learning and consolidation of mathematical concepts.

Value adds

- Content links connect new to the previous knowledge
- 4 Es followed in topics: Example Explanation – Exercise – Evaluation
- Graded content with sufficient recapitulation
- Extensive drilling with an integrated revision exercise in each chapter
- Question banks for the three academic terms
- More: Summary of topics, puzzles, jokes, information snippets, and teacher's tips
- Attractive layout with child-friendly illustrations

Worksheet 3

- A bus started its journey and reached different places we speed of 60 km/hr. The journey is shown as
 (a) Find the total distance covered by bus from A to G.
 (b) Find the total distance covered by bus from C to F.
- c) Find the time taken in entire journey from A to G. 2. I am a number between 20 and 30. If you divide 71 and 94 by me, the rem number am I? 3. Simplify: 100 + [10 + 15 of 3 - (20 + 30 - 45 + 5)]

- Srikant plays basketball every day and Sauya plays basketball every fourth day. They played together on Monday. When will they get a chance to play together again?

 From school A out of 650 students, 250 were selected for essay writing and from another school B out of 800 students 325 were selected. From which school, more students were selected?
- A rope is of length 7.87 m. If 2.58 m is cut from it, how much of the rope is left? Is this ro sufficient to tie a doth line between two hooks which are 6 m a part? If not, how much or required?
- . A monkey climbed up $\frac{1}{8}$ of a pole in first move, and in the next move it slipped down $\frac{1}{8}$ of the pole. In how many moves he finally reached on to the top of the pole?

 1. Rima is 11 years old and his uncle is 59 years old. How many years ago the age of Rima's uncle become 7 times the age of Rima's

 1. The interest on Rs 3,000 for one year is Rs 210. What is the interest on Rs 4,500 for a year at the same rate! If one wants to get an interest of Rs 700 at the same rate, what should be the principal?

 Construct an angle of 75° with the help of a ruler and a compass.

 Swapana was asked to find the number of students playing different games in the school. The information collected by her is as follow:

 Football = 30 Badminton = 10

 Cricket = 20 Volleyball = 30

 Basketball = 40 7. A monkey climbed up $\frac{1}{4}$ of a pole in first move, and in the next move it slipped down $\frac{1}{8}$ of the

- 24. Find the area of a trapezium whose parallel sides are 36 cm and 12 cm and its non-parallel side

- 27. The value of a car is depreciating at the rate of $12\frac{1}{2}\%$ per annum. If its present worth is
- Rs 204800, what will be its value after 3 years.

 A room is 4.5 m long, 3 m wide, and 2.8 m high. It has one door of dim 1.5 m. Find the cost of whitewashing the inner four walls at the rate of R
- 29. Find the area of following figure

Extensive drilling to integrate concepts



700, 324, 400, 617, 365, 356, 435, 548, 506, 736, 780, 378, 685, 570, 312, 630, 584, 674, 776, 754, 596, 745, 763, 565, 472



Mathcraft aims to allow the student to explore the multiple aspects of this subject through implementation of its principles in life and, thereby, develop a passion for it. The care and thought invested in designing *Mathcraft* will assuredly hone not only mathematical skill and ability but also foster a love and passion for the subject.

Math Support

Teacher's books: Along with abundant Teacher Tips in the books, each book is accompanied by a teacher's book to facilitate teaching and provide additional activities.

Website: Access more Math related information

Worksheets to

the learner

add challenge for

from www.britannica.com

Web support development in process

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