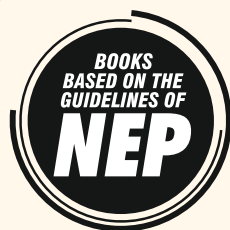




Students' **No.1** Choice



SCHOOL BOOKS CATALOGUE 2024-25



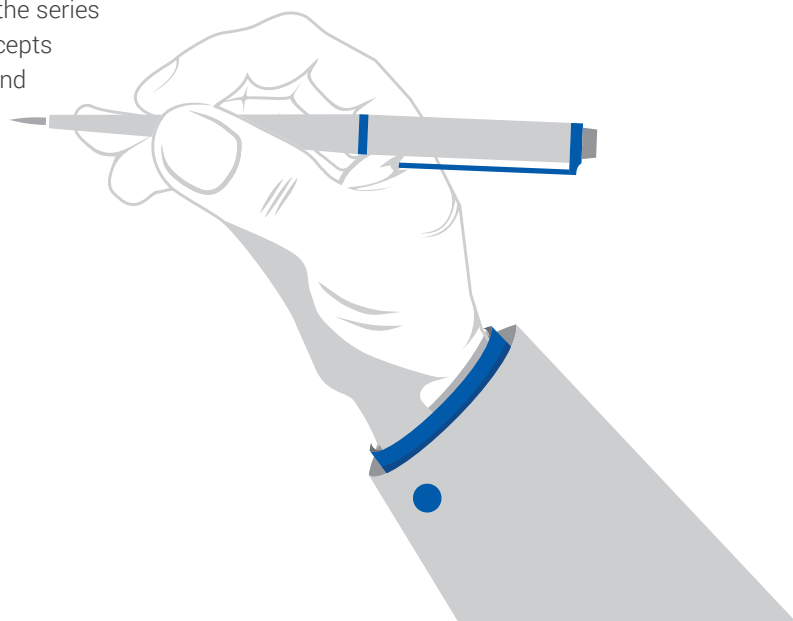


Trust of over Ten Million Readers since 1982

Led by the visionary Mahabir Singh - educationist, teacher and thought leader, it has been more than four decades, MTG Learning Media is still the pioneer of educational books and magazines. The focus is on higher order learning skills among school students. With path-breaking titles of books and periodicals over the past forty one years, MTG has touched lives of millions of students spread across the globe.

The objective is to give the students a smarter alternative to the conventional study methods. Instead of rote learning, children need to be encouraged to enjoy studying whether in school or at home. Thus, systematic endeavours were made to make school books simpler, efficient and interactive for students in lower classes so that the most important concepts were clear to them from an early age.

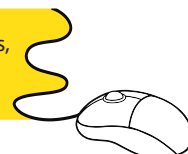
MTG has been serving schools since 1982. MTG Workbooks, a bestselling series in India, is the result of a considerable study of teaching techniques used in schools. The books in the series aim at providing deep rooted understanding of concepts with the help of fun activities and exercises and connect the classroom learning with the real world.



CONTENT

SMART BOOKS FOR 21st CENTURY **SMART** STUDENTS

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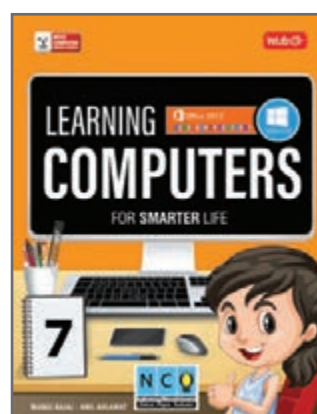
LEARNING COMPUTERS FOR SMARTER LIFE

The series comprises 8 levels of the most updated and comprehensive textbooks. It is aligned with the vision of National Education Policy (NEP), 2020. It is precisely based on Windows 10 and MS-Office 2013. It eliminates cramming and familiarises learners with practical applications and versatility of the computer. It is a perfect blend of technology and education. All the concepts in the book are explained with the help of step-by-step innovative activities. The series aims at learners having adequate exposure of various applications and be able to use computers smartly.

Smart Features

- Each chapter comprises appropriate theory, supported with practical applications.
- Concepts are made crystal clear with different activities, along with plenty of Screen Shots, Extra Info, Notes, Tips, etc.
- Keyboard shortcuts of commands, an exclusive feature, helps learners to save time while performing routine operations on the computer.
- Group activities, within each chapter, promote the situation-based learning.
- Based on latest version of softwares, such as Windows 10, Office 2013, Visual Basic 6.0, Adobe Flash Professional CS 6 and Movie Maker 12.
- SOF NCO solved paper included to give learners an extra edge.

TITLE	ISBN / CODE	PRICE	TRM
LEARNING COMPUTERS CLASS-1	978-81-19218-66-0	350/-	x
LEARNING COMPUTERS CLASS-2	978-81-19218-94-3	375/-	x
LEARNING COMPUTERS CLASS-3	978-81-19218-62-2	375/-	x
LEARNING COMPUTERS CLASS-4	978-81-19218-86-8	400/-	x
LEARNING COMPUTERS CLASS-5	978-81-19218-69-1	400/-	x
LEARNING COMPUTERS CLASS-6	978-93-5555-104-7	450/-	x
LEARNING COMPUTERS CLASS-7	978-93-5555-106-1	450/-	x
LEARNING COMPUTERS CLASS-8	978-93-5555-107-8	450/-	x



SMART FEATURES OF THE SERIES

Seminar

Provides suggestions to teachers on how to approach a difficult topic and to facilitate learning

Practice Test-1

Activities and graded exercises to reinforce the understanding of concepts learnt

Group Activity

Promote the situation based learning

Why this series is SMARTER than the best ?

A comprehensive and extensively illustrated series to learn concepts **SMARTLY**

Practical hands-on working to eliminate cramming and to learn **SMARTLY**

Spiral learning approach that helps to progress **SMARTLY**

Latest Mobile Facts & Apps to lead a Hi-tech life **SMARTLY**

National Cyber Olympiad (NCO)
Solved Question Paper to develop computing skills **SMARTLY**

Extra Info

Provides additional information about the related topics to enhance the knowledge of the learners

Tip

Provides useful tips on the options available for different operations to make tasks more interesting

Points to Remember

Provides a quick recap of the concepts learnt in the chapter

SOF NCO Question Paper

Latest Solved SOF NCO Question Paper has been included to give your learning an extra edge

Interesting Mobile Facts & Apps

An interesting chapter that contains the information about the latest devices and mobile apps to keep learners up-to-date about latest technology

Practice Test-2

MCQs to assess learning

Integrated Learning English

with NEP GUIDELINES

Integrated Learning English Series is a series of English textbooks for **classes 1 to 5**. It is a complete package with inclusion of grammar, phonetics and all other

important aspects of language learning. It is mapped on the **guidelines of NEP, 2020**. It provides a comprehensive, fun-filled, child-oriented study material with appealing graphical aids to enhance learning and create interest among learners. This series has specifically focused on the four targeted areas of language learning: **Listening-Speaking-Reading-Writing (LSRW)**. The key feature of the series includes age-appropriate study material aligned with proper gradation. It adopts a comprehensive as well as exhaustive approach for learners as well as teachers for effective teaching-learning process. The series provides well integrated exercises, tasks and activities that are self-explanatory and learner friendly.



Smart Features

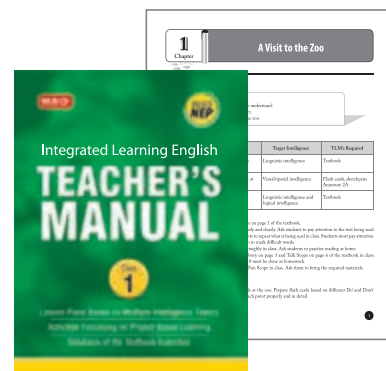
- Renders a rich reading experience of :
 - Stories • Fables • Folktales • Poems • Plays
- **'Phonic Scope'** inculcates the correct understanding of listening and speaking skills and helps in holistic language learning.
- All four aspects of language learning 'Listening-Speaking-Reading-Writing' covered in practical and application based format.
- **'Life Skills'** empowers learners with values and responsibilities that can be related to real life situations.
- The series also focusses on vocabulary enrichment.
- Attractive illustrations emphasise the story and also keep the learner engaged.
- The learner gets plenty of exercises to assess as well as explore his/her level of learning.

ABOUT THE AUTHORS

DEBJANI CHATTERJEE has a valuable experience of 35+ years in teaching English and extensive knowledge of the subject as well as art of storytelling. She holds a Master's degree in English and a P.G. Diploma in Journalism.

VANI KHANNA has double Master's degree in English and Psychology and a P.G. Diploma in Journalism. She has 10+ years of teaching experience in school and engineering college.

TITLE		ISBN / CODE	PRICE	TRM
LEARNING ENGLISH	CLASS-1	978-93-5555-343-0	325/-	✓
LEARNING ENGLISH	CLASS-2	978-93-5555-349-2	425/-	✓
LEARNING ENGLISH	CLASS-3	978-93-5555-350-8	425/-	✓
LEARNING ENGLISH	CLASS-4	978-93-5555-351-5	450/-	✓
LEARNING ENGLISH	CLASS-5	978-93-5555-357-7	450/-	✓

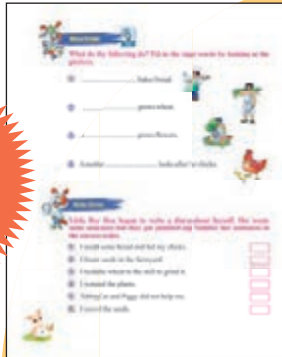


SMART FEATURES OF THE SERIES

MITR
MTG INTERACTIVE
TEACHER RESOURCES

Word Scope

To learn proper use of words



Grammar Scope

To introduce the basic concepts of grammar



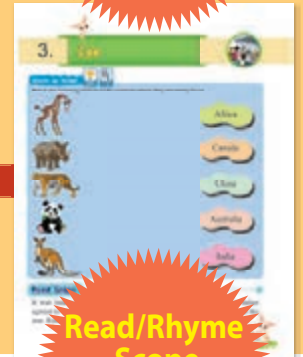
Understanding the Story/Poem

To evaluate the understanding of the story/poem



Warm up Scope

To form a base for the story or poem



Read/Rhyme Scope

To enjoy the story/poem

Why this series is SMARTER than the best ?

- Child-centric texts for **SMARTER** learning
- Gender-and-culture-sensitive content to promote a **SMARTER** society
- Life skills and HOTS inclusions promote **SMARTER** intra-personal skills
- Grammar focussed section ensures **SMARTER** grounding in English language competence

Write Scope

To learn various writing based exercises



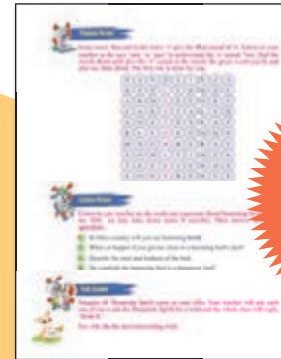
Phonic Scope

To introduce the basic concepts of sounds and correct pronunciation



Listen Scope

To enhance listening and recalling ability



Picture Scope

To develop creativity



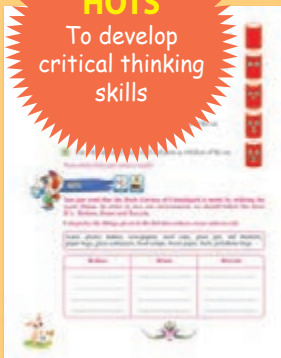
Talk Scope

To develop the communicative knowledge



HOTS

To develop critical thinking skills



Life Skills

To inculcate values and responsibilities



Fun Scope

To engage in fun based activities



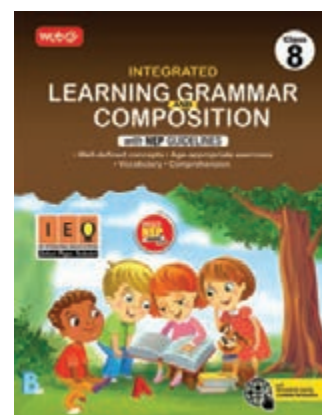
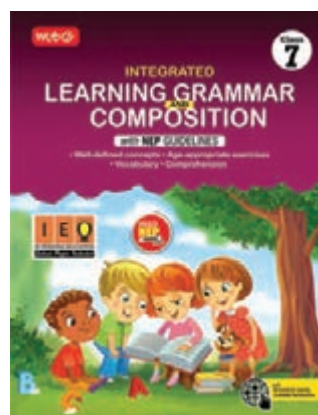
INTEGRATED LEARNING GRAMMAR AND COMPOSITION with NEP GUIDELINES

Grammar is an integral part of learning English. Grammar skills are useful in every aspect of life, from education to leadership and social life to employment opportunities. Integrated Learning Grammar & Composition Series is a series of grammar books for classes 1 to 8. It provides detailed explanation of concepts with applications to real-life situations along with providing the exceptions to the rules of grammar. It aims to build and strengthen the concepts of grammar which is essential for understanding English as a second language. In this series all the four major aspects of grammar along with vocabulary enrichment and comprehension practice have been covered. This series offers varied learning activities and exercises to help the learners to hone their skills and learn and remember the concepts with a practical approach.

Smart Features

- Content based on guidelines of NEP, 2020
- Well-explained grammar concepts
- Everyday examples
- Attractive illustrations
- Vocabulary enrichment
- Topic based interactive exercises
- Simple and interesting text
- Age-appropriate exercises
- Interesting applications
- Learner-friendly
- Expressive comprehensions
- Worksheets and tests for quick revision
- SOF IEO solved paper included to give learners an extra edge

MITR
MTG INTERACTIVE
TEACHER RESOURCES



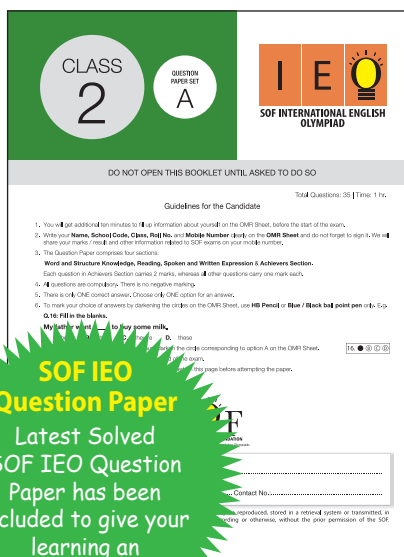
TITLE	ISBN / CODE	PRICE	TRM
LEARNING GRAMMAR AND COMPOSITION CLASS-1	978-93-5555-358-4	350/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-2	978-93-5555-359-1	375/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-3	978-93-5555-365-2	375/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-4	978-93-5555-366-9	400/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-5	978-93-5555-367-6	450/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-6	978-93-5555-373-7	525/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-7	978-93-5555-374-4	575/-	✓
LEARNING GRAMMAR AND COMPOSITION CLASS-8	978-93-5555-375-1	600/-	✓



ABOUT THE AUTHOR

Anju Choudhary is a competent and successful professional with 25+ years of qualitative and dedicated service in teaching English. She is an effective communicator with excellent management skills and has an extensive knowledge of the subject.

Let's Observe
to form a
base for
the topic



SOF IEO
Question Paper
Latest Solved
SOF IEO Question
Paper has been
included to give your
learning an
extra edge

Let's Revise
to recall
the previously
gained knowledge
of the topic

Let's Apply
includes
the practice
questions

Let's Link
to provide an
extension
of the topic

Let's Learn
to introduce
new aspects of
the topic with
the help of
examples

Worksheets
have been
included for
extra practice

Let's Have Fun
to include
fun aspect to
the topic

Let's Remember
to highlight
the uses of
rules

GK LEARNING & KNOWING

with NEP GUIDELINES

GK Learning & Knowing is an inimitable series for **classes 1 to 8**. It explores the recommendations of National Education Policy (NEP), 2020. It promotes life skills, cultural values, self-awareness, scientific aptitude, reasoning, calculations and mental ability that help to create extraordinary individuals.



**Why this
Series is
SMARTER
than the best ?**

Child-centric and interactive
SMARTER presentation with
age-sensitive and contextual text
Wide variety of questions on various
topics for **SMARTER** learning
Quick answer check for
SMARTER revision
Aspirational stories to impart
SMARTER life skills
International General Knowledge
Olympiad (IGKO) Solved Question Paper
to give learners an extra edge

SMART FEATURES

The series is well-equipped with NEP-icons tagging to develop different 21st century skills among learners.

It is a healthy combination of age-appropriate and contemporary content.

Topics are interestingly covered with engaging features, such as –

• Games • Quizzes • Facts • Brain Teasers • Crosswords • Word search • Life skills

Topics are defined and explained precisely for easy learning and recalling.

Hint Box gives the push needed to hone one's problem-solving skills.

Find Out encourages learners to think and explore their surroundings.

Did You Know tells about some interesting and amazing facts.

Latest Updates makes learners aware of the important events occurring in the world.

Do You Know covers current affairs of the world.

SOF IGKO solved paper included to give learners an extra edge.

TITLE		ISBN / CODE	PRICE	TRM
LEARNING & KNOWING	CLASS-1	978-81-19218-39-4	300/-	x
LEARNING & KNOWING	CLASS-2	978-81-19218-68-4	300/-	x
LEARNING & KNOWING	CLASS-3	978-81-19218-89-9	300/-	x
LEARNING & KNOWING	CLASS-4	978-81-19218-90-5	300/-	x
LEARNING & KNOWING	CLASS-5	978-81-19218-29-5	300/-	x
LEARNING & KNOWING	CLASS-6	978-81-19218-45-5	325/-	x
LEARNING & KNOWING	CLASS-7	978-81-19218-41-7	325/-	x
LEARNING & KNOWING	CLASS-8	978-81-19218-81-3	325/-	x

SMART FEATURES OF THE SERIES

UP-TO-DATE FACTS

Do You Know?

Latest Updates

- National**
 - India added another feather to its cap by successfully soft landing Chandrayaan-3 on the surface of the Moon. To commemorate this great achievement, which day is declared as 'National Space Day'?
 - In the Government's 'Ease of Living Index', Pune ranked number two, while Ahmedabad was ranked the third among 111 other cities. Which Indian city topped the list of 'the most liveable city' in the Government's 'Ease of Living Index'?
 - The Union Ministry of Tourism has inaugurated India's first tribal circuit project connecting thirteen tourism sites called 'Swadesh Darshan Scheme'. In which state is this scheme operative?

Mother Nature

Reptiles and Amphibians

Name the animals in the pictures below, using the "Hint Box".



I hiss and coil.



I have a shield on my back.

WELL STRUCTURED QUIZZES

Quiz Time

Quiz Time 2

A. Identify these pictures and write their names.



I look like an intermediate of frog and lizard.

B. Answer the following questions.

CLASS
8

QUESTION
PAPER SET
A

IGKO
SOF INTERNATIONAL GENERAL
KNOWLEDGE OLYMPIAD

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Total Questions: 50 | Time: 1 hr

Guidelines for the Candidate:

- You will get additional ten minutes to fill up information about yourself on the OMR Sheet. Before the start of the exam.
- Write your Name, School Code, Class, Roll No., and Mobile Number clearly on the OMR Sheet and do not forget to sign it. We will share your number, read and other information related to SOF events on your mobile number.
- The Question Paper contains four sections: **General Awareness** (20 Questions), **Current Affairs** (10 Questions), **Life Skills** (5 Questions) and **Advanced English** (5 Questions). Each question is compulsory. There is no negative marking. Use of calculator is not permitted.
- All questions are compulsory. Choose only ONE option for an answer.
- There is only ONE correct answer. Choose only ONE option for an answer. Use of calculator is not permitted. E.g. To mark your choice of answer by selecting the circle on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only. E.g. 16. 17. 18. 19. 20.
- To mark your choice of answer by selecting the circle on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only. E.g. 16. 17. 18. 19. 20.
- As the correct answer is marked, you must darken the circle corresponding to option C on the OMR Sheet.
- Though you should be sure to mark the correct answer, you must also mark the correct answer on the OMR Sheet.
- Mark the OMR Sheet to be invigilator at the end of the exam.
- Please do not write anything in the space provided on the page before entering the circle.

SOF
SOF International General Knowledge Olympiad

SOF Olympiad Test No.:

Contact No.:

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MULTIFACETED CONTENT

Science and Technology

- Body Systems 1
- Body Parts 4
- Medical Specialists 5
- Communicable Diseases 6
- Computers Everywhere 7
- Let's Get Smarter 8

My World

- Dance forms Around the World 9
- Discovering the World 10
- Let's Recognise the Countries 11
- Wonders of the World 12
- Vroom Vroom 13

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SOF IGKO Question Paper

MITR
MTG INTERACTIVE
TEACHER RESOURCES

SCHOLASTIC GAMES

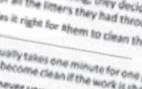
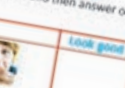
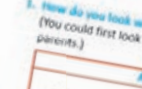
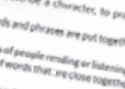
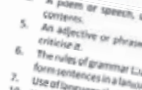
Maths Fun

Read the Time

Look at the given pictures of different activities during different times of the day. Fill in the boxes taking help of the "Hint Box" and the clocks in each picture. The first one has been done for you.



Early Morning



ASPIRATIONAL LIFE SKILLS

Life Skills

Emotional Intelligence

1. How do you look while eating when you do the following? (You could first look at yourself in the mirror, and then answer or even ask your parents.)

Activity	Look good	Look bad
a. Take a large bite.	Look good	Look bad
b. Laugh with a mouthful of food.	Look good	Look bad
c. Chew with mouth closed.	Look good	Look bad
d. Have a heap of food on your plate.	Look good	Look bad
e. Have a small quantity of food on your plate.	Look good	Look bad
f. Eat with dirty hands.	Look good	Look bad

2. Answer the questions that follow the situation.

Scenario: Mohit and his nine friends went to a park that was 25 meters by 30 meters. They had a day-long party and fun. Before leaving, they decided to clean the park of all the litter they had thrown.

a. Was it right for them to clean the park?

It usually takes one minute for one person to clean 10 sq. m area. In what time will the park become clean if the work is shared?

Whenever you go to a park, do you clean your litter?

Integrated अनुभूति

with NEP GUIDELINES

अनुभूति हिंदी पुस्तक शृंखला कक्षा 1 से 8 की रचना वैधानिक पद्धति से राष्ट्रीय शिक्षा नीति (NEP), 2020 के अनुरूप की गई है, जिससे विद्यार्थी हिंदी भाषा को व्यवस्थित ढंग से सीख सकें एवं उनकी कुशलता का विकास हो। यह पुस्तकमाला हमारी सांस्कृतिक धरोहर एवं आधुनिकीकरण का मिश्रण है। पाठ में साहित्य की विभिन्न विधाओं जैसे- कहानी, कविता, लेख, पत्र, प्रेरक-प्रसंग, रेखाचित्र, एकांकी, जीवन-परिचय, ऐतिहासिक रचनाओं आदि को सम्मिलित किया गया है।

मुख्य विशेषताएँ

- UNO द्वारा वर्ष 2030 के लिए निर्धारित सत्रह सतत विकास के लक्ष्यों के आधार पर पाठों का चयन किया गया है।
- 21वीं सदी के कौशलों द्वारा विद्यार्थियों को चुनौतियों का सामना करने में सक्षम बनाने हेतु 4 C's, IMT और FLIPS पर आधारित अभ्यास का समावेश किया गया है।
- चित्रों के आधार पर विषय वस्तु की समझ बढ़ाने हेतु 'Picture Based Activities' का यथासंभव समावेश किया गया है।
- प्रायोगिक ज्ञान पर आधारित क्रियाकलापों का समावेश किया गया है।
- इस पुस्तकमाला में पाठ्य-सामग्री पढ़कर उसे समझने व प्रश्नों के उत्तर देने में विद्यार्थियों को कुशल बनाने हेतु 'Bloom's Taxonomy' की छह श्रेणियों-ज्ञान, समझ, अनुप्रयोग, विश्लेषण, संश्लेषण और मूल्यांकन पर आधारित प्रश्नों का समावेश किया गया है।
- अध्ययन से नीरसता हटाने हेतु 'आनंद का समय' एवं 'आराम का समय' नामक लेख सम्मिलित किए गए हैं।
- त्रिस्तरीय मूल्यांकन (स्व-मूल्यांकन, समकक्ष मूल्यांकन तथा शिक्षक मूल्यांकन) हेतु 360 – डिग्री समग्र प्रगति कार्ड का समावेश किया गया है।



अनुभूति में खास क्या है?

- अनुभूति पाठमाला पाठ्यपुस्तक, अभ्यास पुस्तिका एवं व्याकरण पुस्तक है। (Textbook cum- Workbook cum- Grammar Book)
- पौराणिक परंपराओं का प्रस्तुतीकरण किया गया है।
- आधुनिक सोच के आधार पर बनाए गए लेखों का समावेश है।
- यह पाठमाला स्वतः पर्याप्त (Self-sufficient) एवं आत्मव्याख्यात्मक (Self-explanatory) है।
- प्रश्नों के द्वारा अन्य विषयों से जुड़ाव एक महत्वपूर्ण विशेषता है।
- कक्षा 1 से 3 के लिए रुचिकर सामग्री पुस्तक के अंत में दी गई है।

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लेखिका परिचय

अनुभूति पाठमाला की रचनाकार श्रीमती कल्पना शर्मा, हिंदी एवं राजनीति विज्ञान में स्नातकोत्तर हैं। इनकी उपलब्धियों में हिंदी अकादमी पुरस्कार भी सम्मिलित है। लेखन के क्षेत्र में 10 वर्षों का अनुभव सराहनीय है। इनकी भाषा शैली सरल एवं मार्मिक है, जिसमें शुद्ध हिंदी, खड़ी बोली, संस्कृत, उर्दू एवं अंग्रेजी शब्दों का समावेश है।



सुनो ध्यान से (LISTENING SKILL) भाषा के विकास हेतु

सुनो ध्यान से... (Listening Skill)

Communication

अध्यापिका से कविता सुनकर रिक्त स्थान भरें -

एक-एक धागा बनती पक्की

एक-एक से ही, माला बनती

एक-एक चुनकर, नीड बनाती।

..... को एक-एक से, है भर जाती।

चलो बात करें (SPEAKING SKILL) वाचन कौशल के विकास हेतु

चलो बात करें... (Speaking Skill)

Communication

शुद्ध उच्चारण करें-

बेसूत्री, चॉकलेट, डिब्बा, नाविक, अमेजन, काकाओ, अत्यंत, स्वादिष्ट, पदार्थ, स्मृत, चमकारी, आकृतियाँ, विभिन्न, टुकड़ा

कल्पना के पंख (WRITING SKILL) लेखन कौशल के विकास हेतु

कल्पना के पंख... (Writing Skill)

Initiative and Self-direction

यदि आपको फूल या काँटा बनने का मौका मिले तो आप क्या बना चाहेंगे और क्यों? लिखो।

.....

.....

.....

तार्किक क्षमता के विकास हेतु विश्लेषण

3. सोचकर उत्तर दो- (Critical Thinking)

मीठी बोली बोलने के क्या लाभ हैं?

.....

जीवन मूल्यों के विकास हेतु विश्लेषण

जीवन कौशल... (Life Skill)

Initiative and Self-direction

(ब) आप घर के जिन कामों में मम्मी-पापा की मदद करते हैं, उनमें

● तथा जिन कामों में नहीं करते उनमें ● रंग भरें-

जीवन कौशल (LIFE SKILL) स्वस्थ जीवन शैली की समझ हेतु

जीवन कौशल... (Life Skill)

Initiative and Self-direction

यदि कक्षा में आपका कोई सहपाठी चुप-चुप व सबसे दूर रहता है तो आप क्या करेंगे? ✓ लगाओ।

- आप भी उससे नहीं बोलेंगे।
- अपने मित्रों को उसके पास जाने से मना करेंगे।
- आप जाकर उससे बात करेंगे तथा उसे अपना दोस्त बना लेंगे।
- आप उसकी ओर ध्यान नहीं देंगे।
- आप उसका अपने मित्रों के साथ मिलकर मजाक उड़ाएँगे।

रचनात्मक समय विभिन्न रचनात्मक गतिविधियाँ

रचनात्मक समय...

1. रवींद्रनाथ टैगोर की ऐसी ही एक और कहानी है- 'हींगवाला'। अपने पुस्तकालय से पुस्तक लेकर इस कहानी को पढ़ो। (IMT)

2. रवींद्रनाथ टैगोर के बारे में जानकारी जुटाकर एक प्रस्तुतीकरण तैयार करो। (Experiential Learning)

3. इस कहानी को चित्रकथा के रूप में तैयार करो। (Art Integrated Learning)

4. इस कहानी का नाटक के रूप में मंचन करो। (Experiential Learning)

भाषा को जानें भाषा एवं व्याकरण के विकास हेतु

भाषा को जानें...

1. इन्हें पढ़ें-

ने, में, के आदि लगाने पर बहुवचन शब्दों के अंत में 'ओं' या 'यों' लगता है।

चूहा	चूहे	चूहों ने
आदमी	आदमी	आदमियों ने
गाँव	गाँव	गाँवों में
महानगर	महानगर	महानगरों में
चुड़िया	चुड़ियाँ	चुड़ियों ने

पाठ को जानें पठन कौशल के विकास हेतु

पाठ को जानें...

1. सही उत्तर चुनकर ✓ लगाओ- (MCQs)

(क) जल की धारा कैसी है?

उन्मूल ☐ निर्मल ☐ कोमल ☐

(ख) बिजली दूर-दूर तक कैसे जाती है?

तार पर चढ़कर ☐ नदी में तैरकर ☐ सड़क पर चलकर ☐

(ग) सिंचाई किससे की जाती है?

तार से ☐ दीप से ☐ जल से ☐

रचिका

हिंदी व्याकरण

with NEP GUIDELINES

व्याकरण, भाषा को सीखने और समझने की प्रथम सीढ़ी है। व्याकरण के ज्ञान के बिना भाषा को उचित तरीके से पढ़ना, लिखना, बोलना व समझना संभव नहीं है। इन सभी बातों को ध्यान में रखते हुए 'रचिका हिंदी व्याकरणमाला' (कक्षा 1 से 8 तक) की रचना की गई है। यह शृंखला राष्ट्रीय शिक्षा नीति (NEP), 2020 के दिशा-निर्देशों एवं विद्यार्थियों की विभिन्न आवश्यकताओं को ध्यान में रखकर तैयार की गई है। इस पुस्तक शृंखला में विभिन्न गतिविधियों तथा क्रियाकलापों का समावेश किया गया है जो कि न केवल व्याकरण की नीरसता को समाप्त करते हैं, अपितु इसकी विषय वस्तु को रोचक एवं बोधगम्य भी बनाते हैं।



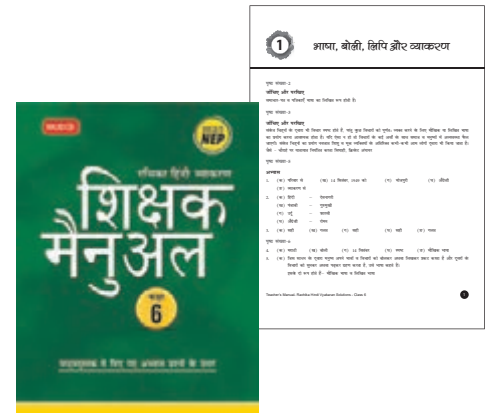
मुख्य विशेषताएँ

- राष्ट्रीय शिक्षा नीति (NEP), 2020 के दिशा-निर्देशानुसार
- विद्यार्थियों की आयु, रुचि व क्षमता के अनुसार पाठ्य-सामग्री का समावेश
- स्तरानुकूल उदाहरणों एवं गतिविधियों का समावेश
- व्याकरण की नीरसता व जटिलता को समाप्त कर सरलतम विधि का प्रयोग
- व्याकरण के व्यावहारिक और प्रायोगिक पक्ष पर बल
- रोचक वातवीत, चित्रकथाओं एवं संवादों का समावेश
- पाठ के मध्य में 'जॉयंटि एंड परखिए' एवं अंत में 'अभ्यास' के अंतर्गत विविध प्रश्नों का समावेश
- 'दोहराने का समय,' 'व्याकरण कोश' तथा 'आओ कुछ करें' के अंतर्गत मुख्य बिंदुओं का दोहराव, व्याकरण से संबंधित रोचक जानकारी तथा मनोरंजक गतिविधियों एवं क्रियाकलापों का समावेश
- शुद्ध उच्चारण, शब्द-रचना, वाक्य-रचना एवं मानक वर्तनी सिखाने पर बल
- आकर्षक चित्रों, तथ्यों एवं तालिकाओं का समावेश

लेखिका परिचय

रचिका हिंदी व्याकरणमाला की रचनाकार श्रीमती कल्पना शर्मा, हिंदी एवं राजनीति विज्ञान में स्नातकोत्तर हैं। इनकी उपलब्धियों में हिंदी अकादमी पुरस्कार भी सम्मिलित है। लेखन के क्षेत्र में 10 वर्षों का अनुभव सराहनीय है। इनकी भाषा शैली सरल एवं मार्मिक है जिसमें शुद्ध हिंदी, खड़ी बोली, संस्कृत, उर्दू एवं अंग्रेजी शब्दों का समावेश है।

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Integrated

LEARNING MATHEMATICS

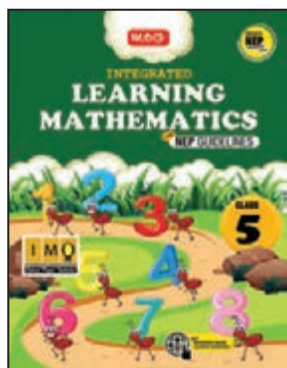
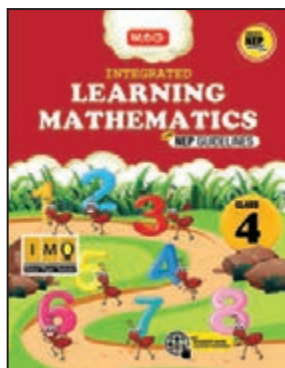
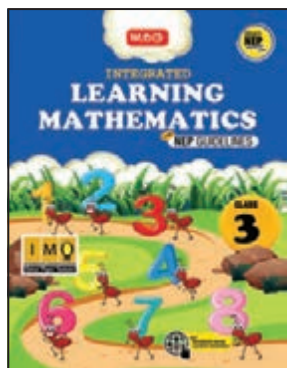
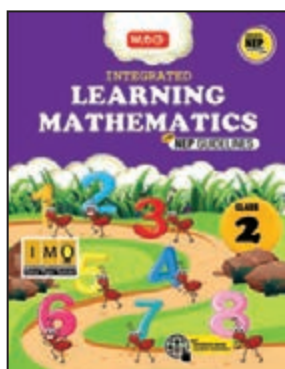
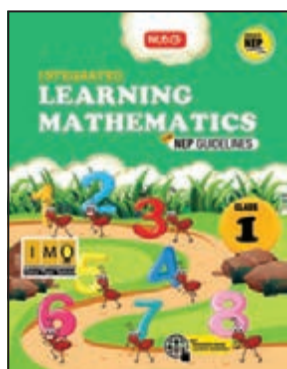
with NEP GUIDELINES

It is a unique series of Mathematics textbooks for **classes 1 to 8** based on guidelines laid down by NEP, 2020 for interactive teaching methodology in Mathematics that reinforces Smarter Learning. It is designed to improve learners' understanding, analytical and problem-solving skills from the early years.

ABOUT THE AUTHOR

Class 1 to 5

For 20+ years **INDU JAIN** has imparted her thorough knowledge of Mathematics to her students, enlightening them about smart methods of solving arithmetic problems. She has done M.Sc. (Mathematics) from IIT Delhi.



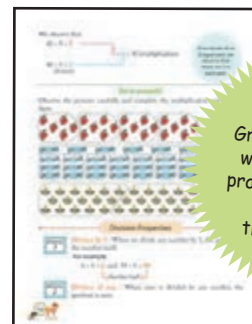
Getting Ready

Recapitulates concepts to establish link between two consecutive classes



Do it Yourself

Grills the learner with challenging practice problems to enhance the analytical skills



Word Fun

Connects Mathematics to daily life



Practice Work

Emphasises on the concepts learnt by providing a variety of questions on all topics covered in the chapter



Wrap Up

Recapitulates the entire chapter with practice exercise



SOF IMO Solved Paper

included to give learners an extra edge



Smart Features

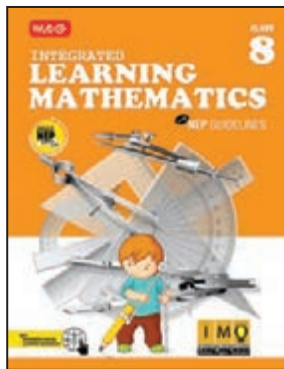
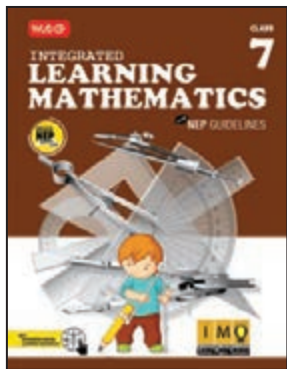
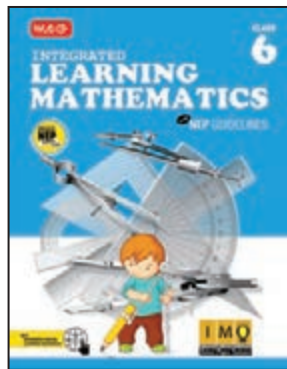
Concepts are well explained through age-appropriate text, attractive illustrations with step-by-step solutions.

Concepts are supported with relevant visuals and informations to engage child's interest in Mathematics.

Do it yourself, Wrap Up, Getting Ready and Miscellaneous Practice not only develop better comprehension of concepts, but also give opportunity to develop decision-making, problem-solving and critical thinking skills.

Activities with Activity Record have been added at the end of the book to develop the team building, fine motor, analytical and creative skills.

SOF IMO solved paper included to give learners an extra edge.



KNOW(LEDGE) WELL

- By multiplying or dividing the numerator and denominator of the given fraction by the same number, we can get as many equivalent fractions.
- An equivalent fraction of a unit fraction will never be a unit fraction.



TIT-BIT

The absolute value of a number is always positive or zero but never negative.



Pondering Pi

If $4 \times 5 = 20$ is a multiplication fact and an arithmetic equation, then what is $4 \times x = 20$ called?

ABOUT THE AUTHOR Class 6 to 8

An ex-DPS faculty member, **Latha Chandrasekaran** has been teaching Mathematic for past 16+ years at school level. She has degrees in M.Sc. (Mathematics), M.Tech and B.Ed.

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Smart Features

Focus Points helps to identify important areas of the chapter.

Pondering Pi motivates the child to explore the chapter.

Know(ledge) well gives insight into the concept explained.

Tit-Bit is the further extension of the application of the knowledge acquired.

Give it one more try helps the child to explore more about the concepts learned.

Indi-Genius presents the contribution of Indian scientists in Mathematics.

HOTS harnesses the logical skills and boosts lateral and critical-thinking in learners.

Math Projects are hands-on activities to enhance practical knowledge.

SOF IMO solved paper included to give learners an extra edge.



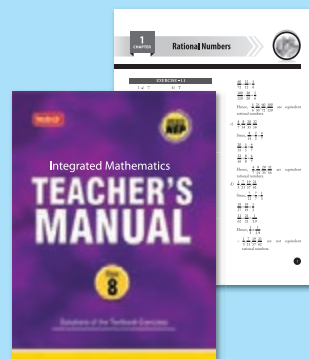
SOF IMO
Solved Paper
included to give
learners an
extra edge



INDI-GENIUS IN MATHEMATICS

Geometry is called Rekha-Ganita in ancient India. The principles of Geometry were accurately applied by Indians in the architectural field. Geometric patterns including different quadrilaterals, etc., are displayed as temple motifs even today.

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Why this series is SMARTER than the best ?

- CHILD CENTRIC, simplistic text to understand concepts **SMARTLY**
- WIDE VARIETY of questions to practice **SMARTLY**
- HOTS to develop problem solving skills **SMARTLY**
- Wrap Up and activities to hone analytical skills **SMARTLY**
- International Mathematics Olympiad (IMO) Solved Question Paper has been included to give your learning an extra edge

Fun way of

EXPLORING MATHEMATICS

Fun way of Exploring Mathematics is a series of 5 books for classes 1 to 5. The prime motto of creating this series is not only to clear students' foundational mathematics concepts, but also to instil an interest in mathematics from a very young age.

The series is in alignment with the NEP 2020 guidelines which recommend- reduced curriculum content to enhance essential learning and critical thinking, experiential learning, curricular integration of essential subjects, skills, capacities, etc. Incorporation of 21st Century Skills makes this series helpful in the process of making learning mathematics more holistic for the students.



Smart Features

Learning Outcomes – Helps to assess the learning objectives of the chapter.

Let's Recall – Connects the chapter with lessons learnt previously.

Teacher's Tips – Contains helpful tips for teachers.

Fact Box – Consists of general information about the topic learnt.

Let's Try – Builds confidence in students for self-practice.

Do you make these mistakes? – Helps to prevent mistakes students often do.

Practice Time – Provides plenty of scope to brush up the application skills.

Revision Time – Recapitulates the entire chapter to enhance learning.

Worksheets – Tests the overall learning outcomes.

Keywords – Lists the difficult words in each chapter.

Brain Gym – Enhances critical thinking among students.

Activity Time – Develops the students' skills of observation, concentration, team-work, analysing, fine motor, creation, etc.

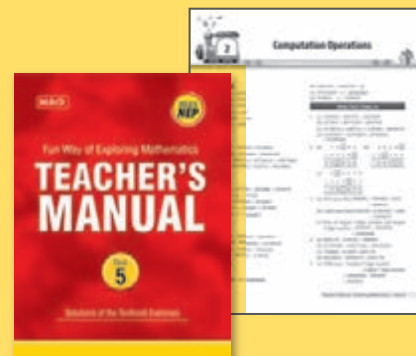
Word Corner – Enables the students to analyse real-life situations by doing concept and application based exercises.

Project – Hands on project ideas to enhance learning beyond the classroom.

Subject Integration – Connects mathematics with different subjects.

SOF IMO Questions – Includes the actual questions from the International Mathematics Olympiad.

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Learning Outcomes

Helps to assess the learning objectives of the chapter.

Let's Recall

Connects the chapter with lessons learnt previously.

Let's Try

Builds confidence in students for self-practice

Word Corner

Enables the students to analyse real-life situations by doing concept and application based exercises.

Practice Time

Provides plenty of scope to brush up the application skills.

Activity Time

Develops the students' skills of observation, concentration, team-work, analysing, fine motor, creation, etc.

SOF IMO Questions

Includes the actual questions from the International Mathematics Olympiad.

Brain Gym

Enhances critical thinking among students.

Project

Hands on project ideas to enhance learning beyond the classroom.

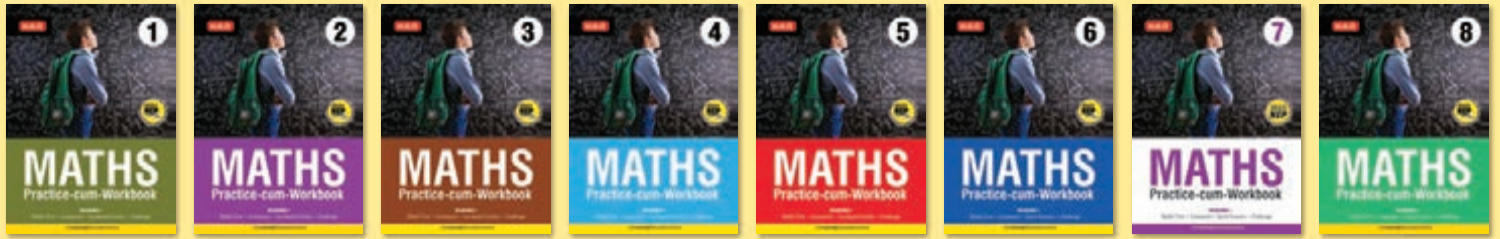
Do you make these mistakes?

Helps to prevent mistakes students often make.

Revision Time

Recapitulates the entire chapter to enhance learning.

MATHS Practice-cum-Workbook



MTG Maths Practice-cum-Workbook series for **classes 1 to 8** is designed for classroom as well as self practice. These workbooks strengthen learners' problem-solving skills and Higher-Order-Thinking Skills.

The series is based on National Education Policy (NEP), 2020 guidelines that emphasise learning should be activity based and comprehension driven. It will help learners to understand the concepts better, increase their interest and enable them to relate the topics with real life examples.

Smart Features

Riddle Time comprises of riddles based on the concepts that stimulate learners' thinking ability.

Word Fun comprises of application-based questions to implement the concepts learnt.

Crossword comprises of grid puzzle with clues that help learners to learn terminologies and concepts being used.

Tick (✓) the correct option comprises of MCQs to inculcate elimination-selection skills in learners.

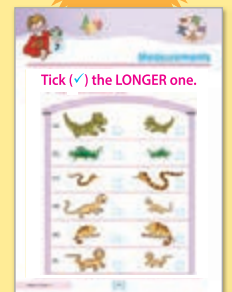
Fun Based Activity comprises of mazes, games and colouring activities to help learners learn with fun.

Challenge comprises of complex questions that require in-depth understanding of concepts.

Quick Answers comprises of fundamental questions that help learners to calculate fast and find crisp solutions.

Sheet symbol  indicates that the learner can use an extra sheet to write her/his answers.

It inculcates the elimination-selection ability in learners.



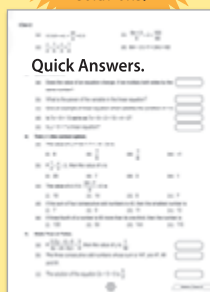
It will provide learners the opportunity to have stress-free and fun-filled outlook towards Mathematics.



It enables learners to implement the concepts learnt and apply Mathematics in real life situations.



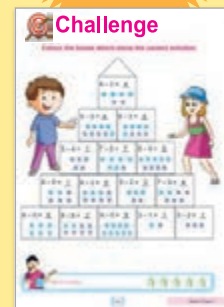
This feature has short questions which will prompt the learners to calculate fast and find crisp solutions.



It enables learners to understand terminologies and implement concepts learnt.



This feature will feed the curious minds of learners and fuel their minds to find solutions by grasping a complex idea.



It will deviate the learners from the rote learning of concepts and engage them in light and enjoyable activities.



Workbook Solutions Are Available For All Classes

Why this series is SMARTER than the best ?

The only workbook series in the market with wide variety questions for classes 1 to 8

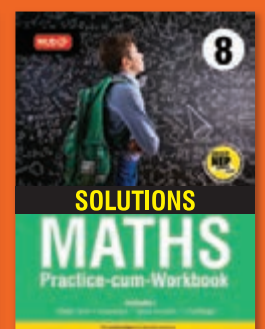
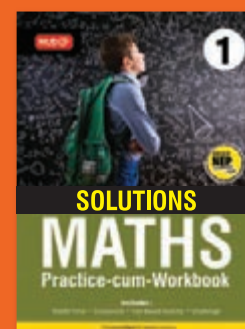
A large number of questions to practice

Well framed questions with simple and easy-to-understand instructions

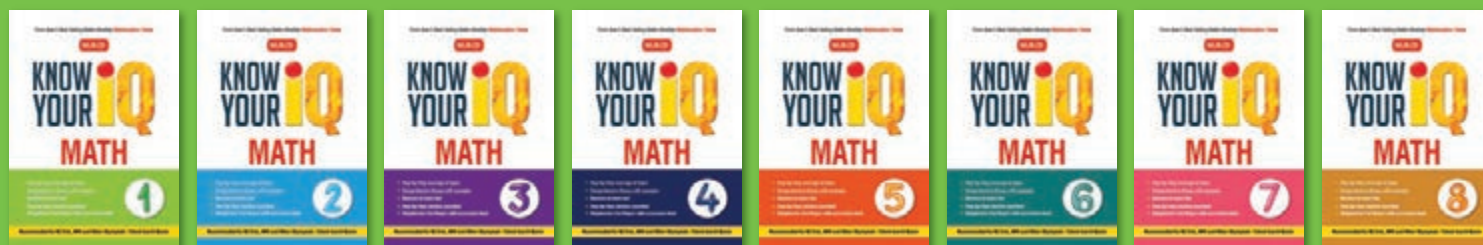
Puts logical thinking and reasoning ability into practice

'Teacher's comment' and 'self-check' features for self assessment

An ideal workbook series for any book by any board



KNOW YOUR IQ MATH SERIES



MTG Know Your IQ Math Series, for classes 1 to 8, is intended to encourage logical and creative thinking in the young child's mind and to promote the ability to observe, classify, recognise, compare, contrast and make deductions. It will help in developing your growing child's natural talent and open her / his mind to new experiences. Your child will find these IQ exercises interesting, challenging and exciting all at the same time! Practising these questions will motivate the child to tackle difficult Mathematics questions in easy manner.

Smart Features

Topic list showing the glimpse of the topics covered.

Olympiad Oriented Theory with session-wise breakup of a chapter for bit by bit learning

Learning exercises in the form of **Learn Fast**.

Test Your IQ questions to establish logical & analytical relationships and arrive at the correct solution on the basis of what you have learnt.

IQ Assessment Chart at the end of each chapter to know your IQ after attempting the test.

Know Your Aptitude section will help you in finding particular area of weakness to work upon.

Why this series is SMARTER than the best ?

The only IQ series in the market with wide variety of questions for classes 1 to 8

A large number of questions for practice

Well framed questions with simple and easy-to-understand instructions

Puts logical thinking and reasoning ability into practice

IQ Assessment Chart for self assessment

An ideal IQ series for any board

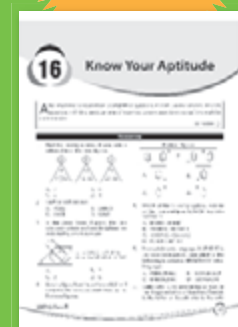
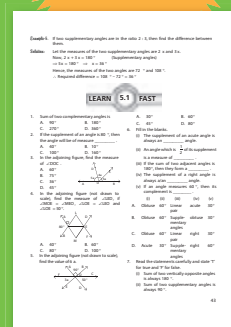
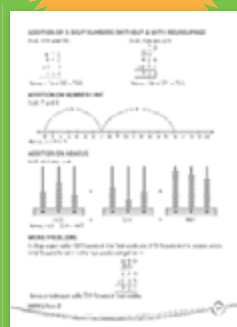
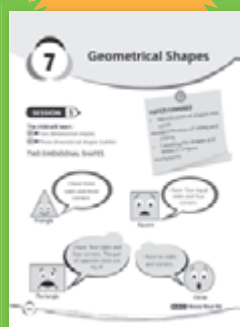
By the topic list at the starting of each chapter the learner gets to know the topics given in the chapter.

Explanation with the help of examples enhances the problem solving skills.

It enables to establish logical and analytical relationships among the learners.

Exercise after each session helps learners to build confidence.

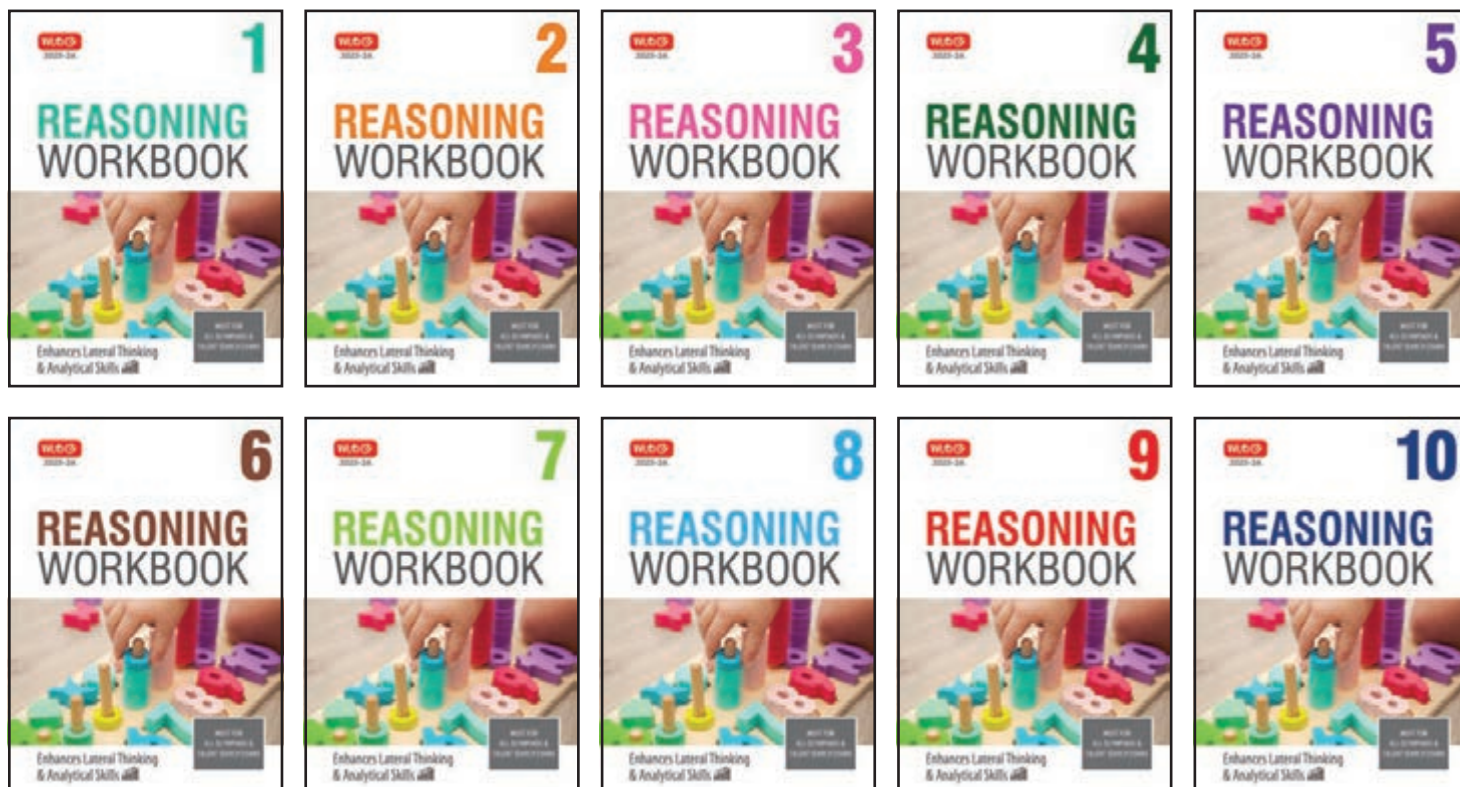
It will help the learners in finding particular area of weakness to work upon.



REASONING WORKBOOK

REASONING WORKBOOK is a series of workbooks up to 10 levels, created for classroom as well as self practice. These workbooks encourage learners to think both critically and creatively.

Each of its chapter contains a wide range of questions specially formed to reinforce the concepts and skills learners learnt in the textbooks.



Smart Features

- Age-appropriate content
- Covers all the genres of Verbal and Non-verbal reasoning
- Step-by-step introduction of concepts
- Exercises preceded by instructive examples
- Answers given with 'Hints and Explanations'
- Tips and tricks are also given
- Questions of IMO, NSO and NCO fittingly given

Approx. 50% (same and similar) questions of LOGICAL REASONING in IMO, NSO & NCO are from these workbooks.

Why this Series is **SMARTER** than the best ?

Develops learners' analytical and reasoning skills
Attractive illustrations help learners to understand and answer the questions
Identifies learners' strengths and weaknesses
Encourages learners' to use Higher-Order-Thinking Skills
Offers practice corresponding to questions in Olympiad test format
Recommended for preparing for Competitive / Olympiad / Talent Search exams

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Alphabet Test and Logical Sequence of Words

ALPHABET TEST

An alphabet test depends upon the English alphabets in different order/sequence and arrangement of different words as in a dictionary.

Alphabetical order

Alphabetical order with its serial number is given below :

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Reverse Alphabetical order

The reverse of alphabetical order is given below :

Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

Inserting The Missing Character 75

Explanation (C) : Let us consider column-wise,

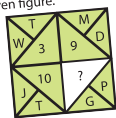
Column 1 : B $\xrightarrow{+3}$ E $\xrightarrow{+3}$ H;

Column 2 : L $\xrightarrow{+3}$ O $\xrightarrow{+3}$ R

So, Column 3 : E $\xrightarrow{+3}$ H $\xrightarrow{+3}$ K

Example : 3

Find the missing number in the given figure.



(A) 5

(B) 9

(C) 11

(D) 13

Explanation (B) : Observing the given design, we see that Place value of W = 23 and place value of T = 20 Here, $23 - 20 = 3$ Similarly, $M(13) - D(4) = 9$ and $T(20) - J(10) = 10$ Also, place value of P = 16



Days and Dates & Possible Combinations

DAYS AND DATES

How to find the days required in question?

We have to first name what is today, yesterday and tomorrow.

Note : 8th day from today is again the same day.

POSSIBLE COMBINATIONS

How to make possible combinations/pairs of 1 - 1 objects from given m - n objects? If $m = n$, then number of possible (1 - 1) combinations of (m - n) objects is $m \times m$. If $m \neq n$, then number of possible (1 - 1) combinations of (m - n) objects is $m \times n$.

Example : 1

Vidya correctly remembers that her school starts after 12th May but before 15th May. Her mother correctly remembers that her daughter's school starts after 10th May but before 14th May. What will be the date on which the school starts?

- (A) 14th May (B) 13th May (C) 11th May (D) 12th May

Explanation (B) : Vidya remembers the dates are any one of 11th, 12th and 13th of May.

Her mother remembers the dates are any one of 11th, 12th and 13th of May. The date which is common in both is 13th May. So, the date on which the school starts is 13th May.

Example : 2

How many possible combinations of 1 pencil and 1 eraser each can be formed from the given pencils and erasers?



(A) 8

(B) 6

(C) 7

(D) 5

Explanation (A) : Number of pencils = 4
Number of erasers = 2
So, number of possible combinations = $4 \times 2 = 8$



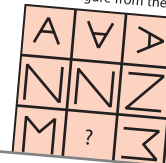
Figure Matrix

FIGURE MATRIX

In such type of problems, a 2×2 or 3×3 matrix is given. All the cells except one of the matrix contains a figure. Figures in each row or column follow a common rule. In order to fill the blank cell by taking a figure amongst the given options, a candidate is required to identify the rule.

Example

Select a figure from the options to complete the given matrix.



(A)



(B)



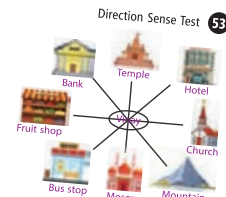
(C)



(D)

22. Vinay is facing towards fruit shop. If he makes $\frac{1}{4}$ turn clockwise and then $\frac{1}{2}$ turn anti-clockwise, then he will be facing towards _____.

- (A) Temple
(B) Church
(C) Bus stop
(D) Mosque

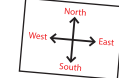


(SOF IMO 2022)

23. Raman walks towards North, after travelling some distance he turns right. After travelling some more distance he turns right again. In which direction is he facing now?

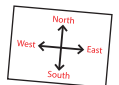
- (A) North
(C) West

- (B) East
(D) South



(SOF IMO 2022)

24. Who is in South-East of Aditi?



Coding-Decoding

WHAT IS CODING?

Coding is a method of expressing something in a secret way.

WHAT IS DECODING?

Decoding is a process to understand a code language.

TYPES OF CODING

- Letter Coding :** Letters are used in forward or backward or both the directions for making some code language.
- Direct Letter Coding :** Letters of a word are directly replaced by other letters.
- Number/Symbol Coding :** Numerals or symbols are assigned to words.
- Substitution Coding :** Some particular words are assigned to certain names.

Example : 1

If in a code language, 'MARKS' is written as 'LBQLR' and 'SECOND' is written as 'RFBPME'; then how will 'SATURDAY' be written in that code ?

- (A) SBSTEZX (B) RBUVQYZ (C) SCWQZEZ (D) RBSVQEZ

Explanation (D) : We have,

M A R K S and S E C O N D
 $\downarrow -1 \downarrow +1 \downarrow -1 \downarrow +1$ $\downarrow -1 \downarrow +1 \downarrow -1 \downarrow +1$
L B Q L R R F B P M E

So, 'SATURDAY' will be written as 'RBSVQEZ'.

Example : 2

In a code, 'CONTRIBUTE' is written as 'ETUBIRTNOC'. If 'POPULARISE' is written in that code, then which letter will be in the 6th place when counted from the left end ?

(A) P

(B) L

(C) R

(D) I

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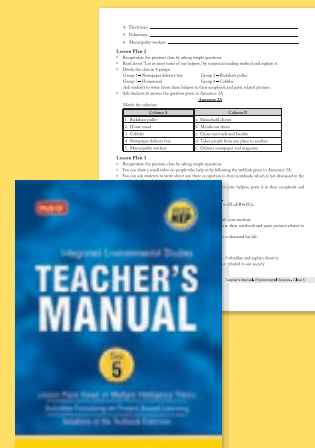
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7 Plants

Klara has a small garden on her terrace. It has many plants of different types. Some plants have very beautiful and colourful flowers. Klara likes flowers and wants to pluck and keep them in her room. But her mother says that plucking flowers is a bad habit. We should not pluck flowers or leaves of plants.



Info Bits

GENERAL AWARENESS

Skin is the largest organ of human body.

Words of Wisdom

WELLNESS

Yoga is the best way to keep our body strong and flexible.

Project Time

Here is a list of five different professionals:

Chef, Shopkeeper, Mason, Gym instructor, Plumber

Collect the following informations related to their work and write down in your project file.

- What training did they acquire and from where they got trained?
- The tools they use for their work.
- The timings of their job.
- The things they like about their jobs.

Think Tank

CRITICAL THINKING

Nowadays, children enjoy playing games on cell phones, video games and watching television more than playing outdoor physical games. How does it affect the child's health?

Fun Time

MATHEMATICS

Draw the hands of the clocks to show your breakfast, lunch and dinner time.



Breakfast time



Lunch time



Dinner time

Practice Time

A. Write name for each.



My favourite colour



My favourite food



My favourite book



My favourite animal



My favourite toy



My favourite game

Activity Time

Unscramble the given letters to get the names of some animals and match them with their pictures shown here.

- CTPSOOU
- QURESIRL
- ABTRBI
- AGROANKO
- UTRLYBEFT







Recap Time

- Insects are tiny animals. They can be found almost everywhere in our surroundings.
- Insects have six legs and their body is divisible into three parts.
- Most insects have wings, some insects possess wings only at some stage of their life however some insects are wingless.
- Silk is obtained from cocoon of an insect called silkworm.
- Spiders are not insects.

Kiara asks...

CRITICAL THINKING

If you are facing the north, then which direction would be towards your left?

Life Skills

LIFE SKILLS

Mahatma Gandhi Setu, Patna is one of the longest river bridges of India. It is getting damaged due to traffic of heavy loaded vehicles. What can be done to protect this bridge from damage and ensure the safety of people travelling on it?

INTEGRATED LEARNING SCIENCE

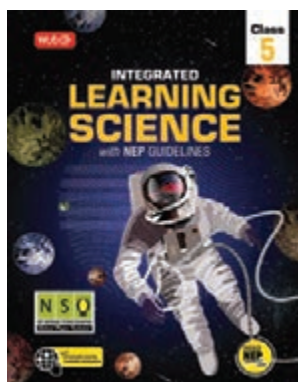
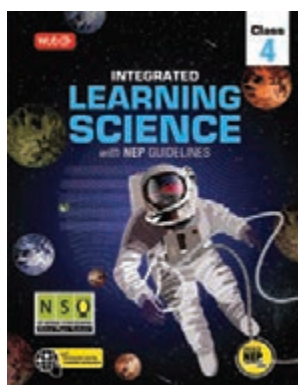
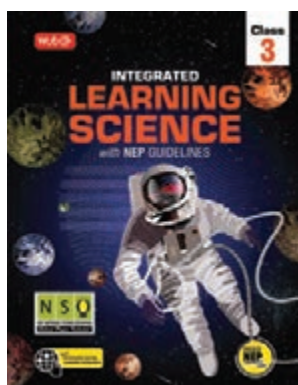
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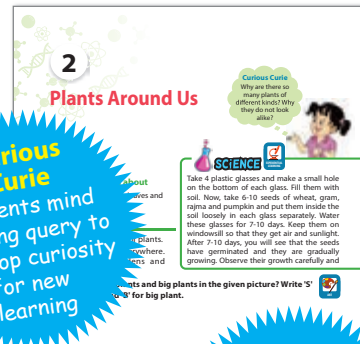
MITR
MTG INTERACTIVE
TEACHER RESOURCES

ABOUT THE AUTHOR (Classes 1 to 5) SURACHITA ROY CHOWDHURY

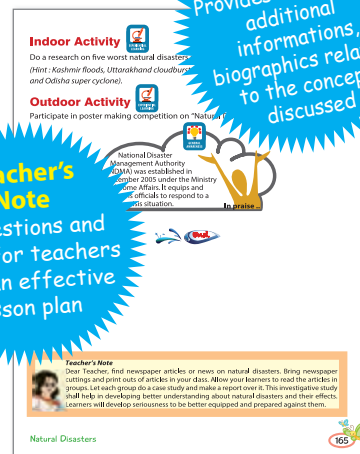
(M. Sc. Zoology) has 25+ Years of Teaching Experience, which has given her an understanding of children psychology at a deeper level. This considerable insight has helped her author 26 school books so far. Currently, she is working as P.R.T. and H.O.D. of Science at Cambridge School, Noida.



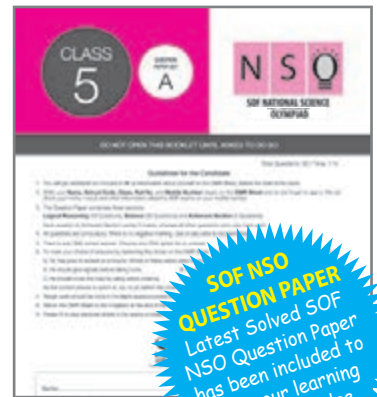
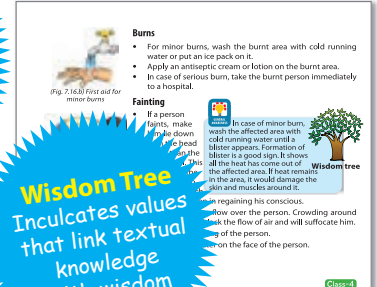
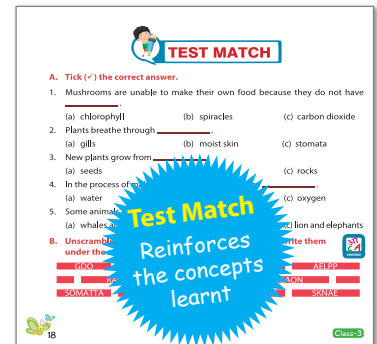
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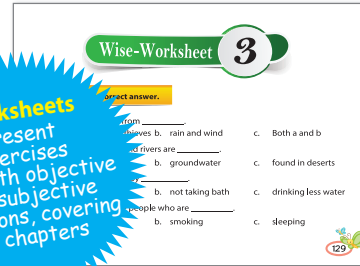
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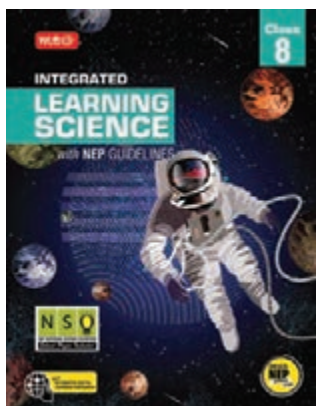
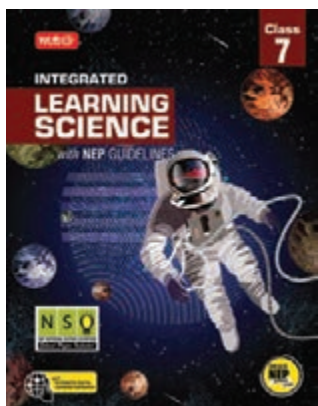
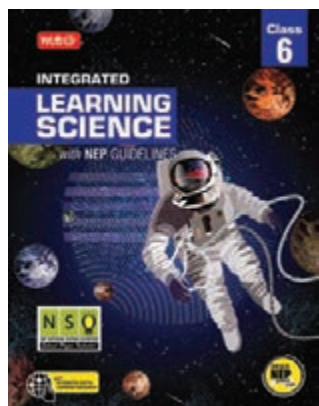


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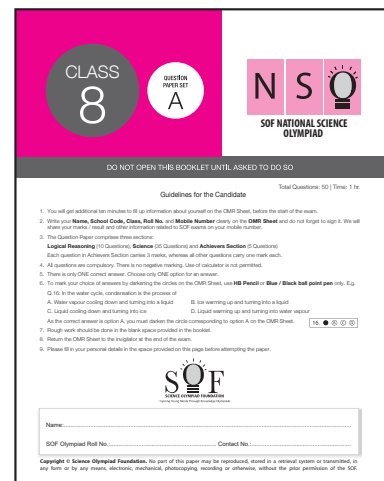


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- NEP-icons tagging is provided throughout the content to develop different 21st century skills in learners.
- Concepts are well explained through age-appropriate text, attractive illustrations and hands-on activities.
- Concepts are supported with fascinating facts and informations to develop learners' interest in Science.
- Varied and detailed exercises help to evaluate the learners' understanding of concepts and assess their learning.
- HOTS, VBQ and Life Skills questions not only give shape to learners' logical and analytical thinking but also develop their critical thinking and social behaviour with their peer groups.



ABOUT THE AUTHOR (Class 6)
SANGEETA SINHA
 has 25+ Years of Teaching Experience, which has given her a good understanding of the subject, essential for curating an age appropriate textbook.



Sci. Quest
 Can you state the difference between *tussar* and *mooga* silk?

Let Us Try

Given below is the list of some materials. Mention whether they produce a flame or not, on burning.

S.No.	Materials	Produces flame	Does not produce flame
1.	Magnesium ribbon		
2.	Candle		
3.	Camphor		
4.	Iron nail		
5.	Charcoal		
6.	Kerosene		

Smart Features

- **Learning Goals** outlines the topics that will be learnt in the chapter.
- **Pause to Ponder** emphasises to pause and think about a matter.
- **Smart View** provides extra information related to the topic.
- **Science Quest** presents interesting, mind engaging query to develop curiosity for new learning.
- **Let Us Try** provides in-text exercise to help in developing the 'Learning by Doing' and 'Analytical Approach' in the learners.
- **Step by Step** includes in-text questions to reinforce the concepts learnt.
- **Science Near Us** helps to explore the real science in day-to-day life.
- **Watchwords** reiterates the meaning of the key concept words of the chapter.
- **Summary (be mindful)** summarises the lesson and enables easy revision.
- **Info Bits** provides interesting additional information at the end of the chapter.
- The book provides **worksheets** for self-evaluation.
- **Test Match** assesses the learning of students.

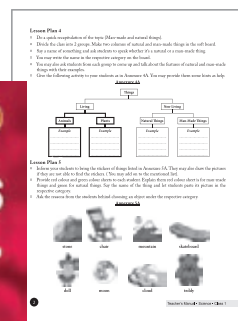
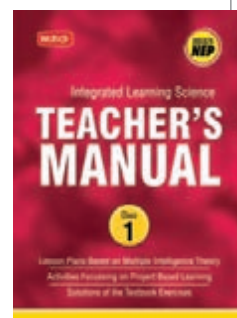
Why this series is SMARTER than the best ?

- CHILD-CENTRIC, simplistic text to understand concepts **SMARTLY**
- WIDE VARIETY of questions to practise the exercises **SMARTLY**
- VALUE BASED QUESTIONS to develop life skills **SMARTLY**
- FUN-FILLED projects and assignments to hone observing and analytical skills **SMARTLY**

SOF NSO QUESTION PAPER

Latest Solved SOF NSO Question Paper has been included to give your learning an extra edge

TITLE	ISBN / CODE	PRICE	TRM
LEARNING SCIENCE CLASS-1	978-81-19218-98-1	450/-	✓
LEARNING SCIENCE CLASS-2	978-81-19218-25-7	450/-	✓
LEARNING SCIENCE CLASS-3	978-81-19218-56-1	450/-	✓
LEARNING SCIENCE CLASS-4	978-81-19218-13-4	525/-	✓
LEARNING SCIENCE CLASS-5	978-81-19218-17-2	525/-	✓
LEARNING SCIENCE CLASS-6			✓
LEARNING SCIENCE CLASS-7			✓
LEARNING SCIENCE CLASS-8			✓





SCIENCE

Practice-cum-Workbook

MTG Science Practice-cum-Workbook series for **classes 1 to 8** is designed to help learners in classwork as well as homework. These workbooks help learners to explore with scientific outlook and acquire a better understanding of Science within classroom and at home.

This series conforms to the recent guidelines of National Education Policy (NEP), 2020 which emphasise that learning should be activity-based and comprehension driven. It includes a comprehensive set of questions structured with progressive level of difficulty which provide learners ample opportunity to apply combination of concepts and skills.

Smart Features

Recap: A short gist of key concepts of the chapter.

Five sections: Each chapter has five core sections:

Knowledge Based Questions comprising MCQs, fill in the blanks, match the columns, scrambled words, etc.

Understanding Based Questions comprising circle the odd one, true or false, questions & answers, etc.


Application Based Questions comprising crossword, give reason and application driven questions.

HOTS Questions comprising higher-order-thinking skills based questions.

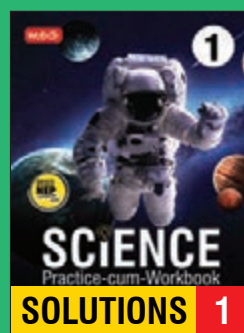
Skill Based Questions comprising activity-oriented, data-based and analytical questions.

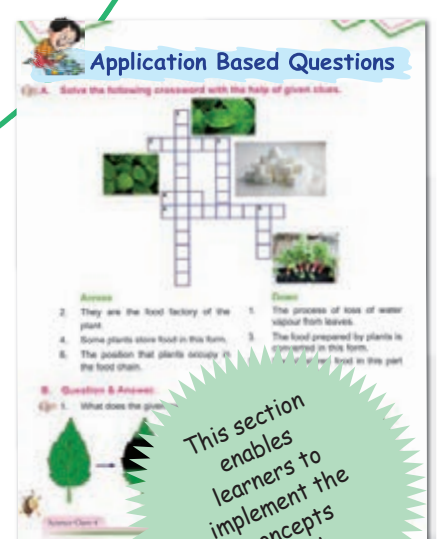
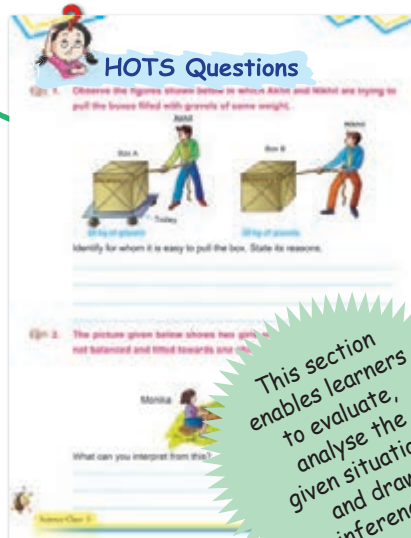
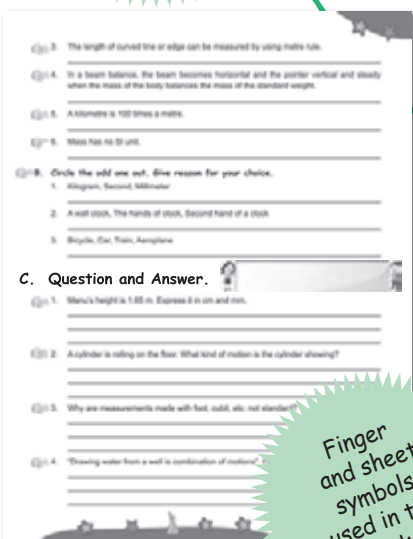
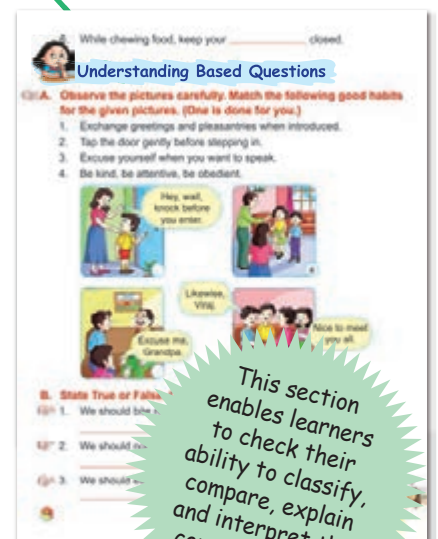
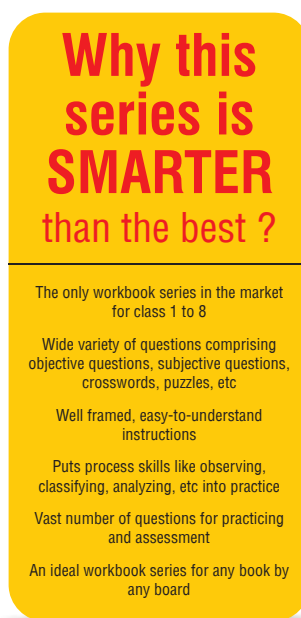
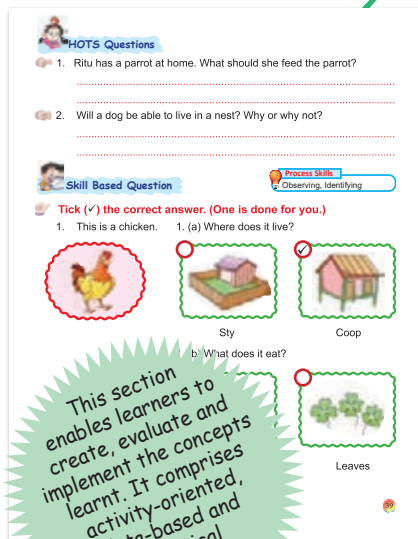
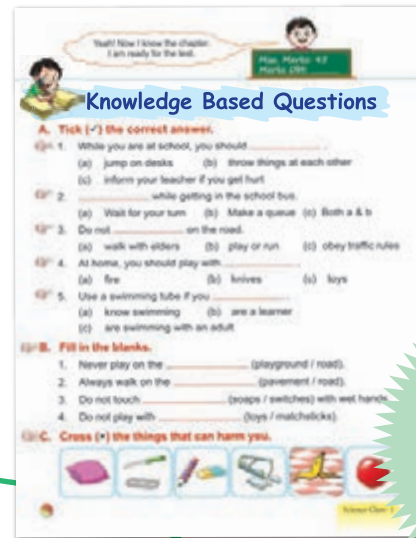
All the sections are designed according to the **Bloom's Taxonomy**.

Symbols Used: Finger and sheet symbols are used in the series. Each question is indicated with finger (👉, 👈, 🖐️) or thumb (👊) symbol, which serves two purposes: 1. indicates difficulty level and 2. indicates marks.

Sheet symbol  - indicates that the learner can use an extra sheet to write her/his answers.

Workbook
Solutions
Are Available
For All
Classes





Treasure

An Integrated Semester Series

Treasure is an integrated semester series for classes 1 to 5. It comprises 10 books (two semester books in each class). It is designed to connect knowledge across disciplinary boundaries, providing a broader framework. It also aims to reduce the bulk of school bags, hence allowing learning without burden.

The core subjects, included in the series are- English, Mathematics, Science, Computers and General Knowledge.



Smart Features

- Content is based on the guidelines laid down by NEP, 2020.
- Concepts are well explained through age-appropriate text, attractive illustrations, hands-on activities, flow charts and tables.
- Varied and detailed exercises help to evaluate the learners' understanding of concepts and assess their learning.
- HOTS questions are included to enhance learning and reasoning capability.
- VBOs and life skills questions are provided to inculcate values and life related skills for holistic development of learners.
- The **English** section will help learners to master LSRW skills. It is a mixture of prose and poetry.
- With ample number and variety of questions, the **Mathematics** section helps the learners to develop logical thinking and reasoning.
- The **Science** section emphasises that learners learn by asking, observing, exploring and doing. This section focuses on nurturing the inquisitive minds of learners.
- The **Computer** section is a comprehensive section based on Windows 8.1 and MS office 2013. It eliminates cramming and familiarises learners with practical applications of the computers.
- The **General Knowledge** section enhances the general awareness of the learners. It is carefully graded and supported with up-to-date information.

Why this series is SMARTER than the best ?

CHILD - CENTERIC, simplistic text to understand concepts
SMARTLY

WIDE VARIETY of questions on wide range of topics to practise exercise **SMARTLY**

HOTS to develop problem-solving skills **SMARTLY**

Quick answer check for revision **SMARTLY**

VALUE BASED QUESTIONS to develop life skills **SMARTLY**

AUTHORS

Vani Khanna
Debjani Chatterjee
Indu Jain
Surachita Roy Chowdhury
Manuj Bajaj
Anil Ahlawat
&
MTG Editorial Board

SMART FEATURES OF THE SERIES

More number
and variety
of exercises
to reinforce
concepts
learnt.

Well-graded
assessment
exercises
for thorough
revision and
evaluation.

Age-appropriate
content,
supported with
visually
appealing
illustrations.

Journey from Small Numbers to Big Numbers

One Digit Numbers
1, 2, 3, ..., 7, 8, 9
Smallest number = 1
Largest number = 9
For example: Number on dice, Number of fingers, Time in digital clock, Representation on abacus

Two Digit Numbers
10, 11, 12, ..., 97, 98, 99
Smallest number = 10
Largest number = 99
For example: Number of teeth, Dates in a calendar, Representation on abacus

Three Digit Numbers
100, 101, 102, ..., 997, 998, 999
Smallest number = 100
Largest number = 999
For example: Height of human being, Speedometer, Representation on abacus

Four Digit Numbers
1000, 1001, 1002, ..., 9999
Smallest number = 1000
Largest number = 9999
For example: Number on car's number plate, Representation on abacus

Fun and Play Scopes - 1

A. Complete the given paragraph by choosing the correct option.
The Earth is one of the known planets that circle the sun. In (1) orbits, the ones who studied the Earth noticed that while certain planets (2) seemed fixed in the sky, others seemed to (3) about. The latter they named planets or wanderers. New astronomers have discovered that the four planets, Jupiter, Saturn, Uranus (4) Neptune, are surrounded by poisonous gases and are no (5) that any living thing attempting to land on them would instantly be frozen to death. Of the five remaining (6), Venus most closely resembles the Earth in size.

Ⓐ (a) ancient (b) modern (c) past (d) unique
Ⓑ (a) things (b) entities (c) bodies (d) objects
Ⓒ (a) ran (b) move (c) jump (d) roam
Ⓓ (a) am (b) etc. (c) or (d) and
Ⓔ (a) dull (b) bright (c) cold (d) lukewarm
Ⓕ (a) planets (b) moons (c) constellations (d) stars

B. Write a factual description of your school library in about 100 words. Remember to factual description you only write about the facts or what you actually see there. You may also give a visit to your library to get ideas.



PRACTICE TEST

A. Activity
Create Labels for your school notebooks and copies for all subjects using the Label Wizard of Microsoft Word. The Label must contain your Name, Class, Section, Subject and Section.
(Hint: Make a list of all subjects in Excel and use it as data source in Mail Merge.)

B. Identify at least three situations where you would like to use Envelopes / Labels option in Mail Merge.


C. What is the difference in Print option or Edit Individual Label in Mail Merge?

D. What is the difference between Envelopes and Labels options in Mail Merge?

E. What is a field placeholder?

F. While Mail Merging a document, if you have to merge all addresses except 1st and 20th, how shall you use this dialog box?

G. Write the sequence of clicks, if you have to select all recipients except the first one.



Life skills
and value
based
questions are
provided.

Well-planned
hands-on
activities,
assignments,
projects and
experiments.

HOTS
questions
included to
enhance
reasoning
capability.

HOTS Questions


1. In case of snake bites, why should the bitten body part be kept in a position below the level of heart?

2. Why cloth stuck to the burnt part should not be removed?

Value Based Question
Your mother often gets burnt from hot cookware and steam while working in the kitchen. You get cuts and wounds while playing. How will you ensure that you or your family get immediate care on getting hurt?

Indoor Activity
1. With the help of an adult, find out first aid for heat stroke, choking and bee stings.
2. Find out about these first aid procedures - BICE (Bite, Ice, Compress, Elevate), CPR (Cardio Pulmonary Resuscitation) and DRABC (Danger, Response, Airway, Breathing and Circulation). Make a report about your research.

Outdoor Activity
1. Learn fire safety evacuation plan of your school building. Know types of fire extinguishers used in your school, housing society, shopping mall, etc. Know the differences in these fire extinguishers. Make a report about your research.
2. Along with your classmates, make a first aid box for your class.



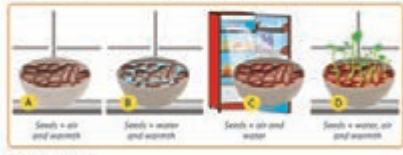
Teacher's Note: Dear Teachers, get your learners engaged in your class. Demonstrate some first aid procedures and ask them to repeat those with a partner. Give them assignments and projects that will require them to apply the concepts as well as inquire.

ACTIVITY 1: SEEDS

To study the conditions needed for a seed to germinate, we perform the given activity.

What to do:
Take four bowls and mark them as A, B, C and D. Find a place where air and sunlight are adequate, such as a window sill. Take some kidney bean seeds, water and cotton. Now, follow the given steps:
1. Put few dry seeds in bowl A. Keep it on the window sill.
2. Put few dry seeds in bowl B which is filled with water. Keep it on the window sill.
3. Put some soaked seeds on a moist cotton in bowl C. Keep it in the refrigerator.
4. Put some soaked seeds on a moist cotton in bowl D. Keep it on the window sill. Regularly water the cotton to keep it moist.

What will you observe:
After a few days, you will observe that only seeds in bowl D have germinated.



How it happened:
Seeds in bowl A do not get water. Seeds in bowl B do not get air as they were immersed in water. Seeds in bowl C do not get warmth as they were kept in the refrigerator. Only seeds in bowl D get air, water and warmth. This activity proves that air, water and warmth are the essential conditions for seed germination.

A seed can remain dormant for a long period of time in unfavourable conditions, such as in extreme winter and summer. It remains viable as the embryo stays well protected between the cotyledons. On receiving favourable conditions, the seed germinates.

Wisdom tree

HOTS Questions

1. _____ is equivalent of one lakh in International System of Numeration.
Ⓐ Hundred thousand Ⓑ Ten million
Ⓒ One million Ⓓ Ten thousand

2. Place value and face value of a number is always equal at _____.
Ⓐ Ones place Ⓑ Tens place
Ⓒ Hundreds place Ⓓ None of these

3. Subil chose a secret number. When he rounds off the number to the nearest thousand, he gets 15000. When he rounds off the number to the nearest hundred, he gets 14900. When he rounds off to the nearest ten, he gets 14880. What is the possible number he might have chosen?
Ⓐ 14200 Ⓑ 14499 Ⓒ 14879 Ⓓ 14009

4. The value of MMDCCLXXII - MMDCCLXXIII is _____.
Ⓐ XCIX Ⓑ CI Ⓒ XC Ⓓ BC

5. Find the value of P.
 $P + 1 \times Q_2 \times 1 = R$, $P + Q_2 = 15$, $Q_2 = R - 17$
Ⓐ 6 Ⓑ 9 Ⓒ 8 Ⓓ 7

6. Which of the following options hold?
Statement 1 : The value of CM - CD + CVII is 607.
Statement 2 : Symbol C can be added to every Roman symbol. But it can be subtracted from D and M only.
Ⓐ Statement 1 is true but statement 2 is false.
Ⓑ Statement 1 is false but statement 2 is true.
Ⓒ Both the statements are true.
Ⓓ Both the statements are false.

New Integrated **Bright** Semester Series

Bright is an integrated semester series for classes 1 to 5. It comprises of 10 books (two semester books in each class). The Series is based on the guidelines of NCF, 2005 and NEP, 2020. It is designed to connect knowledge across disciplinary boundaries to provide a broader framework for better construction of knowledge. Holistic learning approach is followed throughout the series to make learning a joyful experience without burden.

The core subjects included in the series are:

Class 1 & 2: English, Mathematics, Environmental Studies and General Knowledge.

Class 3 to 5: English, Mathematics, Science, Social Studies and General Knowledge.



Smart Features

- Series, well equipped with NEP-icons tagging to develop different 21st century skills in learners.
- Concepts are well explained through age-appropriate text, attractive illustrations, hands-on activities, flow charts and tables.
- Varied and detailed exercises help to evaluate the learners' understanding of concepts and assess their learning.
- HOTS questions are included to enhance learning and reasoning capability.
- VBQs and life skills questions are provided to inculcate values and life related skills for holistic development of learners.
- The **English** section will help learners to master LSRW skills. It is a mixture of prose and poetry.
- With ample number and variety of questions, the **Mathematics** section helps the learners to develop logical thinking and reasoning.
- The **EVS** section aims to construct and shape the knowledge of environment and create awareness towards it.
- The **Science** section emphasises that learners learn by asking, observing, exploring and doing. This section focuses on nurturing the inquisitive minds of learners.
- The section of **Social Studies** has been designed to ensure the development of a broad knowledge base among the learners. Topics of Geography, Civics and History have been covered in an interesting manner.
- The **General Knowledge** section enhances the general awareness of the learners. It is carefully graded and supported with up-to-date information.

Why this series is SMARTER than the best ?

CHILD-CENTRIC, simplistic text to understand concepts **SMARTLY**

WIDE VARIETY of questions to practise the exercises **SMARTLY**

VALUE BASED QUESTIONS to develop life skills **SMARTLY**

FUN-FILLED projects and assignments to hone observing and analytical skills **SMARTLY**

HOTS to develop problem solving skills **SMARTLY**

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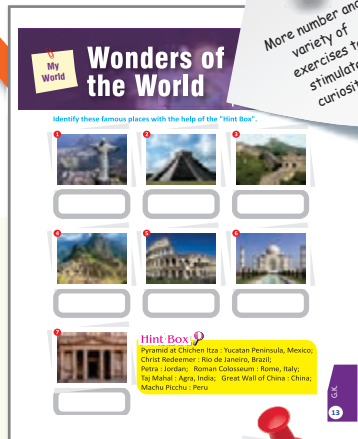
MTG Editorial Board

SMART FEATURES OF THE SERIES

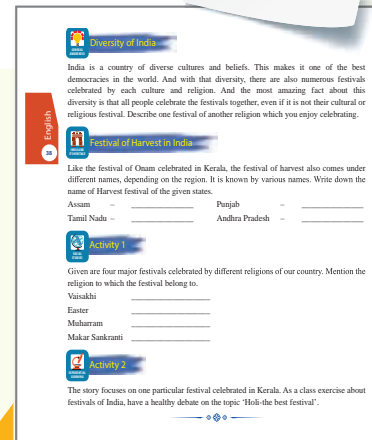
Age-appropriate content supported with visually appealing illustrations.



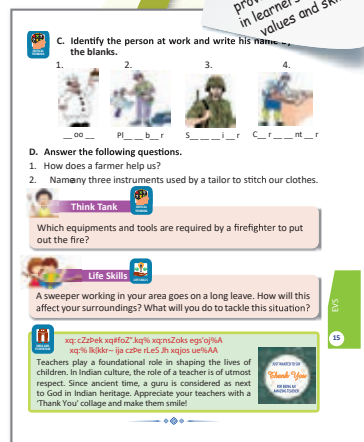
More number and variety of exercises to stimulate curiosity.



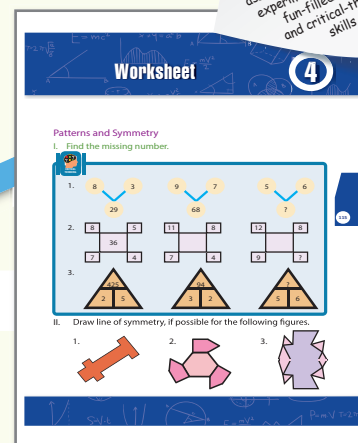
Well-graded assessment exercises for thorough revision and evaluation.



Life skills and value-based questions are provided to inculcate important values and skills.



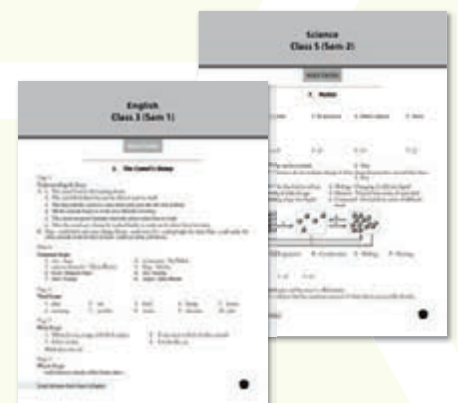
Well-planned worksheets include assignments, projects and experiments to promote fun-filled learning and critical-thinking skills.



HOTS questions included to enhance reasoning capability.



TITLE	ISBN / CODE	PRICE	TRM
Bright Semester Book Class - 1 Sem - 1	978-93-5555-226-6	650/-	✓
Bright Semester Book Class - 1 Sem - 2	978-93-5555-234-1	600/-	✓
Bright Semester Book Class - 2 Sem - 1	978-93-5555-248-8	650/-	✓
Bright Semester Book Class - 2 Sem - 2	978-93-5555-252-5	650/-	✓
Bright Semester Book Class - 3 Sem - 1	978-93-5555-255-6	725/-	✓
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Bright Semester Book Class - 4 Sem - 1	978-93-5555-269-3	800/-	✓
Bright Semester Book Class - 4 Sem - 2	978-93-5555-277-8	750/-	✓
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Bright Semester Book Class - 5 Sem - 2	978-93-5555-293-8	800/-	✓



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Salient Features

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- Cover All Grammar Topics in variety of Presentations
- Help Children Explore Topics
- Banish Boredom

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Learning Made Fun

with

65 English Worksheets



Salient Features

- Enhance your grammar concepts
- Enrich your vocabulary
- Improve your writing skills
- Have fun while learning
- Utilise your time and learn

TITLE	ISBN / CODE	PRICE
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OLYMPIAD PREPARATORY MATERIAL

OLYMPIAD WORKBOOKS

Olympiad workbooks are designed to familiarise students with the type of questions that appear in Olympiad exams. The workbook contains chapterwise multiple choice questions followed by Achievers Section (HOTS) with Hints and Explanations at the end of the book. The Olympiad workbooks also contain latest Olympiad exam paper with detailed solutions to give recent Olympiad exam understanding. It gives complete question practice with self-analysis for great performance in the Olympiads.

Salient Features

- Chapterwise MCQs with Hints and Explanations
- Various types of MCQs
- MCQs of Logical Reasoning
- Achievers Section (HOTS Questions)
- Previous Years' actual Olympiad Question Paper
- OMR Sheet

Class 3 to 10



Class 1 to 10



Class 1 to 10



Class 1 to 10



Class 1 to 10



Class 1 to 10



Class 1 to 10

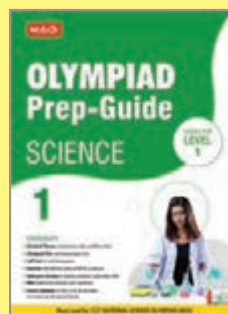


OLYMPIAD PREP-GUIDE & OLYMPIAD PREVIOUS YEARS' PAPERS

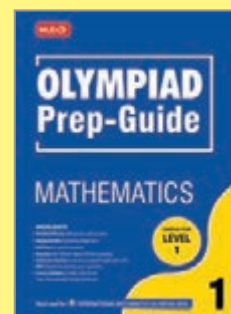
Salient Features

- Detailed Theory with illustrative pictures, tables & flow charts
- Olympiad Bite containing unique facts
- Self-tests
- Exercise with different types of MCQs
- Achievers Section (HOTS questions)
- Previous Years' Questions (Level 1 & Level 2)
- Hints and Explanations
- Model Test Papers

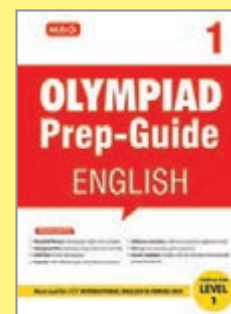
Class 1 to 10



Class 1 to 10



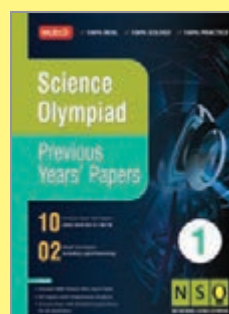
Class 1 to 10



Salient Features

- Previous 5 Years' Question Papers
- Detailed Solutions
- OMR Sheets
- 2 Model Test Papers

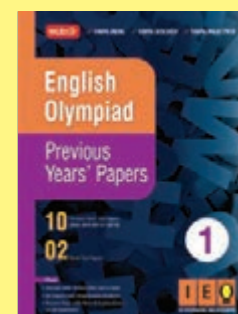
Class 1 to 10



Class 1 to 10



Class 1 to 10



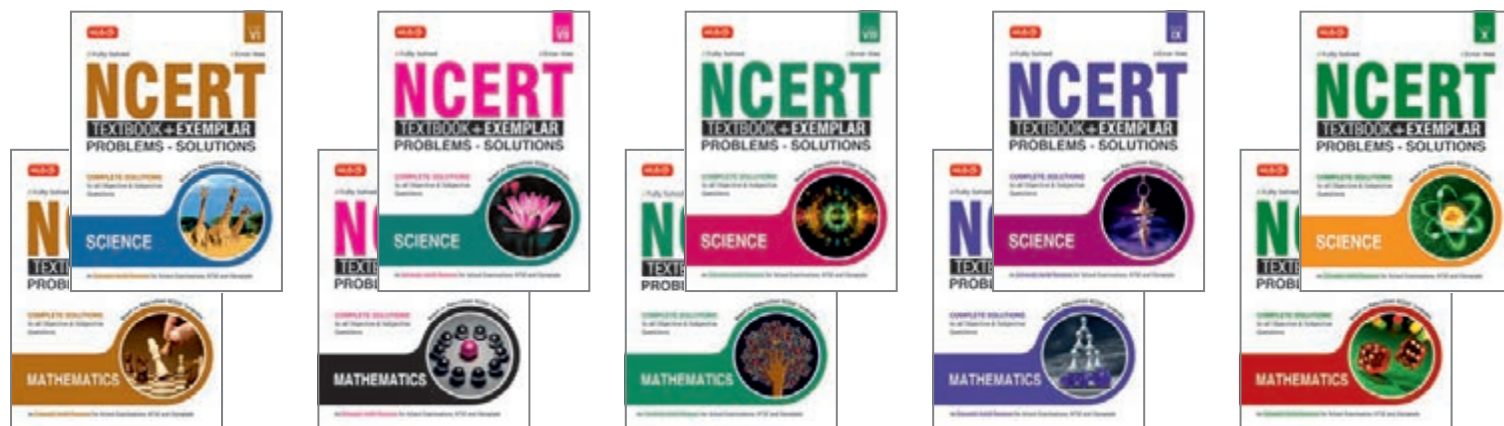
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Visit our site www.mtg.in for more Digital Resources / Quick Access
OSDS (Olympiad Skill Development System) | e-books (Previous Years' Olympiad Papers) | eQuiz (Online Test)

Available
for **Classes**
6 to 12

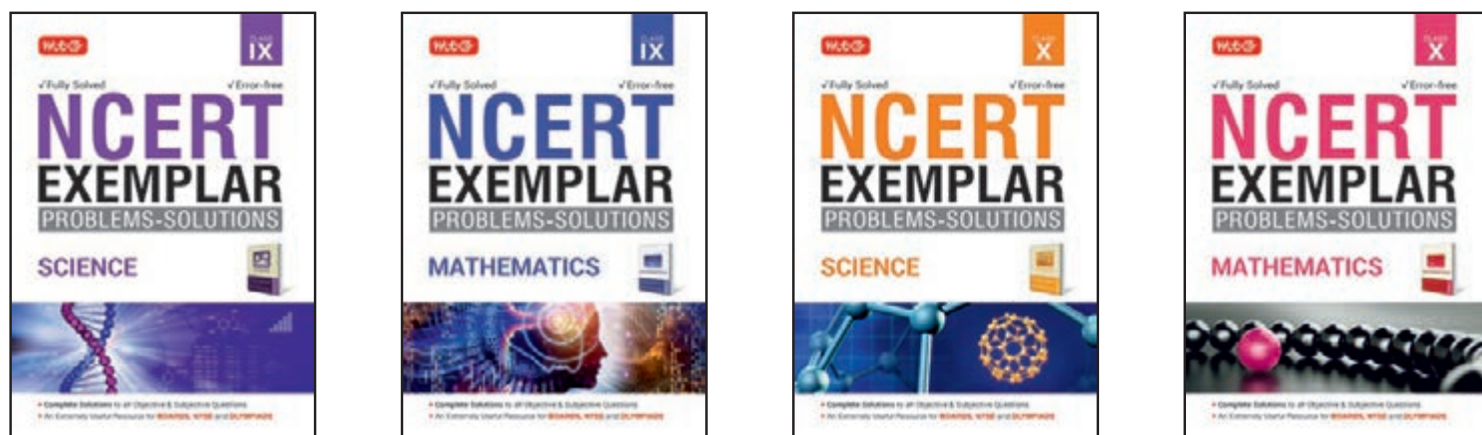
NCERT TEXTBOOK+EXEMPLAR PROBLEMS-SOLUTIONS

These series are a set of two books (Science and Mathematics). These series contain explicit explanations to all the questions given in Latest NCERT Textbooks and NCERT Exemplar Problems. Through these error-free, precise and easily understandable explanations, students can practice more.



Available
for **Classes**
9 to 12

NCERT EXEMPLAR PROBLEMS-SOLUTIONS



Salient Features

- Complete solutions to all objective and subjective questions
- An extremely useful resource for Boards, Olympiads, NTSE, NEET, JEE & PETs
- Enhances thinking and learning abilities
- Develops analytical approach to solve problems
- By practising the problems of different difficulty levels of NCERT and Exemplar book, student will be able to crack the future Entrance Exams
- Detailed and error-free solutions of all the questions of Latest NCERT Textbooks and Exemplar Problems

BETTER than the best

Covers entire solutions of Latest NCERT Textbook questions and NCERT Exemplar Problems

Expert answers by experienced teachers who participate in CBSE Paper checking

Error-free, Authentic solutions with the most accurate information

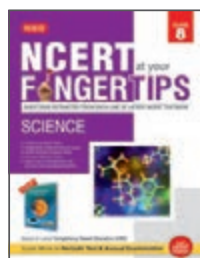
Complete solution for all the questions

NCERT at your FINGERTIPS

NCERT at your fingertips series (Classes 6 to 10) is designed strictly on NCERT Textbooks. This series helps learners in developing better comprehension of their NCERT course books with wide variety of questions and testing tools. It provides challenging questions, objective questions, case based questions, application-based questions, subjective problems which will help learners in preparing for both school exams as well as competitive exams. This way, MTG NCERT at your fingertips is a ONE-STOP RESOURCE book for School exams, Boards, Olympiads and Competitive exams.

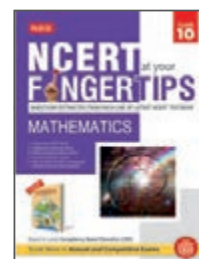
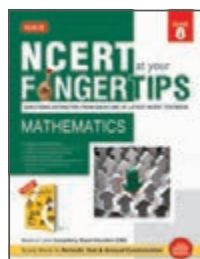
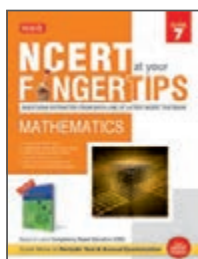
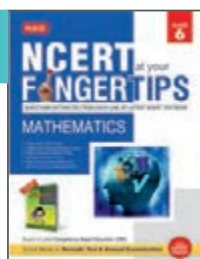
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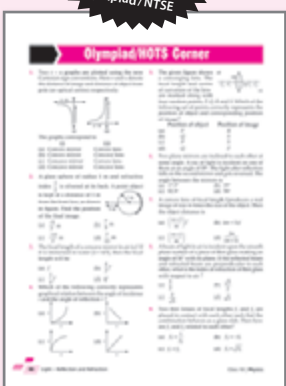
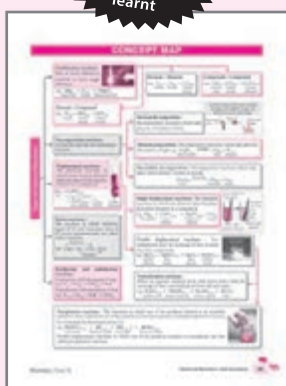
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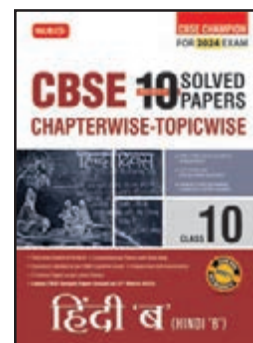
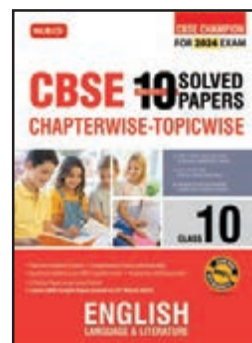
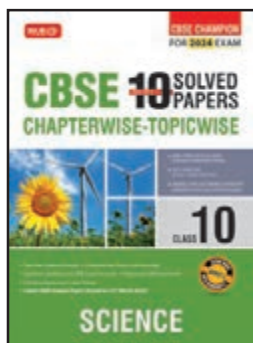


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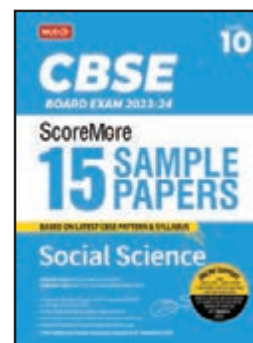
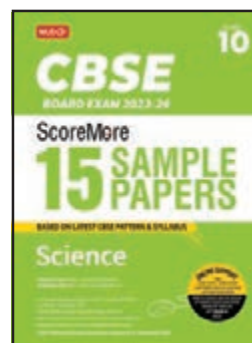
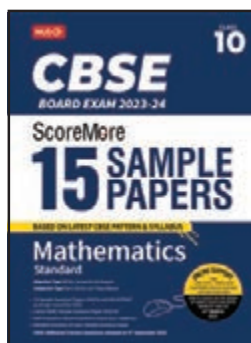
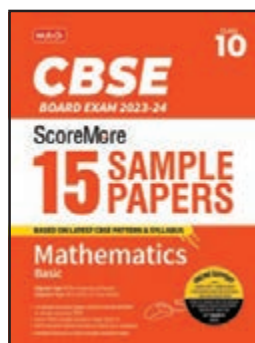
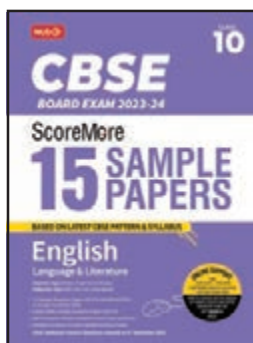
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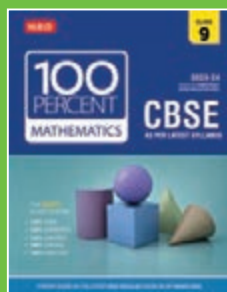
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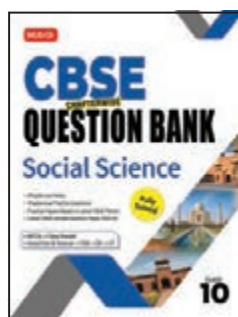
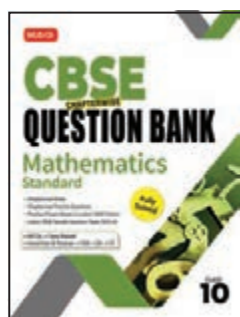
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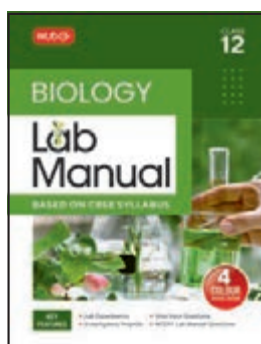
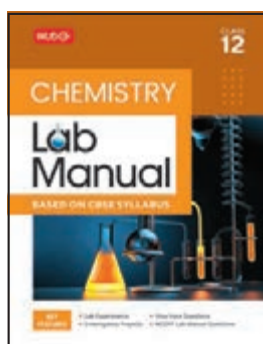
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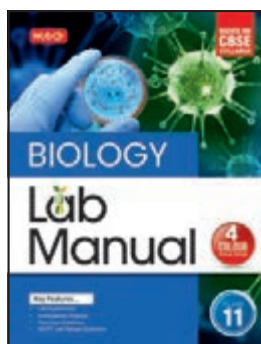
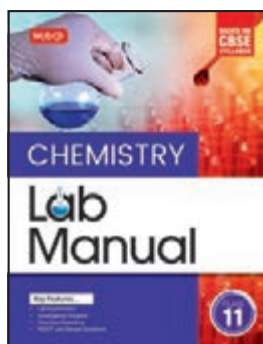
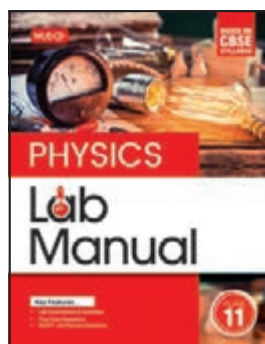
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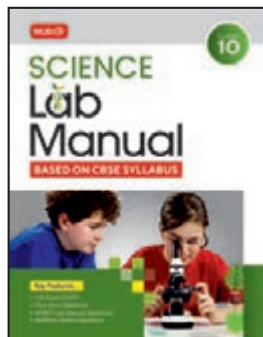
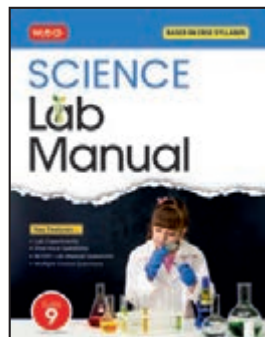
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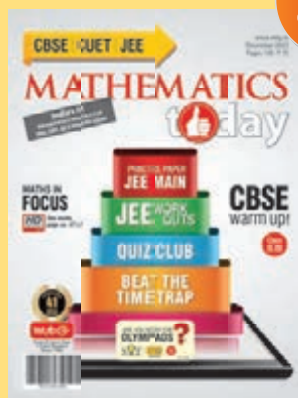
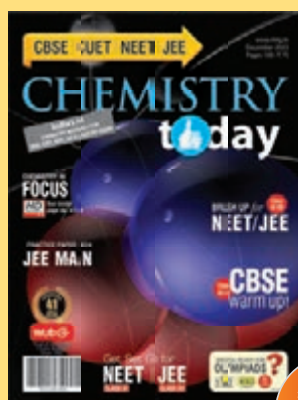
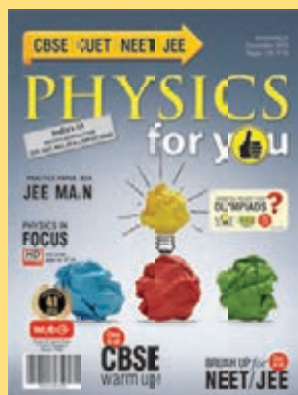
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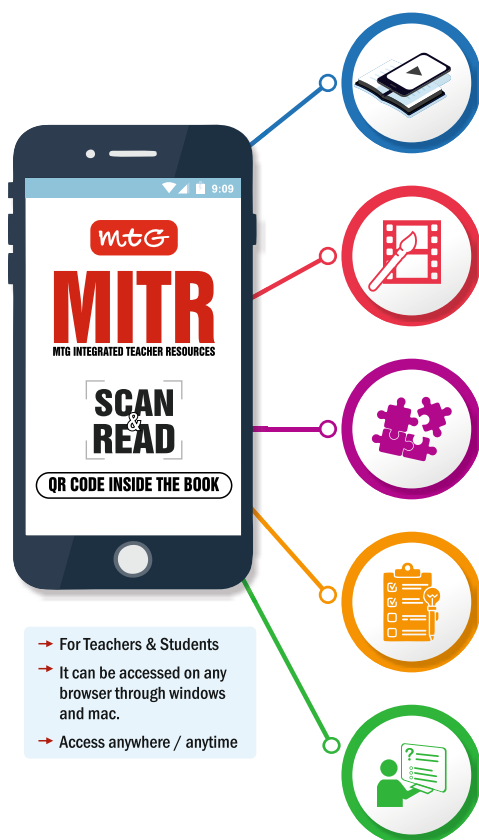
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