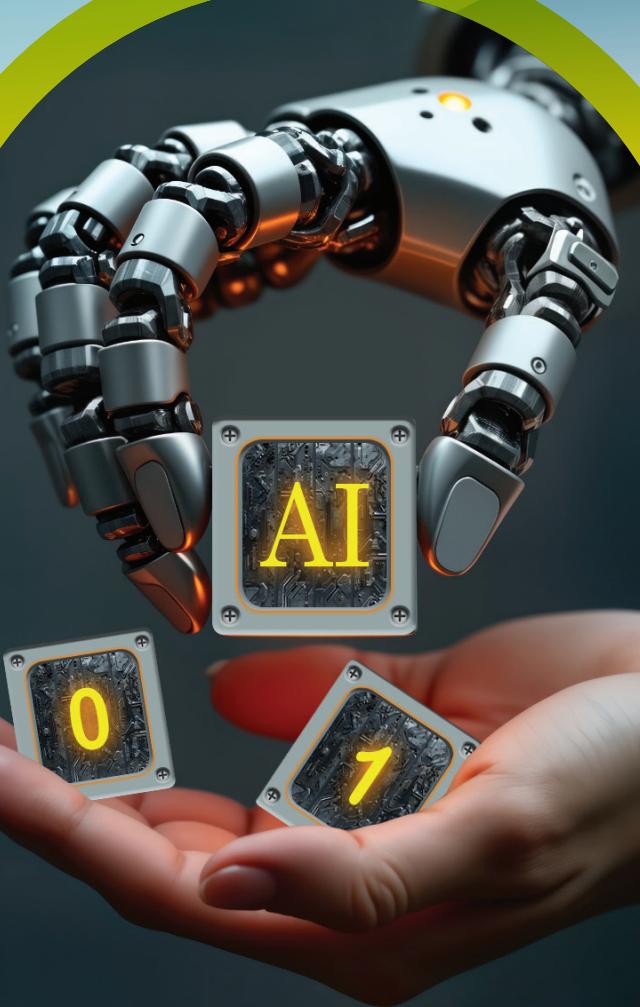




Scan for Specimen



MASTERING TECHNOLOGY
UNLOCKING NUMBERS

CATALOGUE 2026-27



Orange Education
Adding value to 'Education'



Publisher's Desk

"The New Era of Learning with Orange Education"

Orange Education has been at the forefront of Computer Science education, delivering cutting-edge textbooks and learning solutions that integrate AI, Robotics and Coding from Nursery through Grade 12. Our expertise in this domain has shaped how students engage with technology and develop essential 21st-century skills, preparing them to thrive in a rapidly evolving digital world.

Building on this solid foundation and three years of in-depth research, we are proud to expand our portfolio by introducing a comprehensive Mathematics series, designed to complement and elevate our Computer Science offerings with a fresh, forward-thinking approach.

Our Mathematics textbooks blend logical reasoning, creativity, and computational thinking, crafted to inspire curiosity and mastery while aligning seamlessly with our Computer Science curriculum. This synergy creates a unique, integrated learning experience where mathematics and technology empower each other, enabling students to build a strong numerical foundation alongside programming and problem-solving skills.

Key strengths of Orange Education's combined Computer Science and Mathematics offerings include:

- Alignment with NEP 2020 and NCFSE-2023 frameworks, delivering relevant, structured learning through the Panchpadi Five-Step Process.
- A cross-disciplinary approach that connects mathematical concepts with coding, AI, and real-world applications.
- Age-appropriate pedagogy, clear language, and culturally inclusive content supported by glossaries and digital tools.
- Engaging, interactive resources that foster collaboration, critical thinking, and ethical use of technology.
- Design and content that balance familiar contexts with innovative challenges, making learning meaningful and motivating.

By integrating Mathematics with our proven expertise in Computer Science, Orange Education empowers students to excel academically and become confident, digitally fluent innovators and responsible citizens.



Scholastic Outreach

Partnering with 10,000+ Schools in India & Abroad to provide impactful educational solutions.



Cutting-Edge Innovations

Pioneering Innovative Content as per NCFSE-2023 with fresh ideas, latest tools and dynamic designs.



Global Reach

Empowering learners globally with Computational Thinking & AI, the skill of today and tomorrow.

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NEW

CODEPILOT

Ver. 5.0

Windows 11 & Office 2021

Build for
Intelligence & Innovation

Grades 1-8

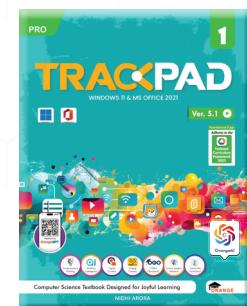


SYLLABUS

Painting with Paint | Block-based Coding using Scratch |
Designing with Sketchpad | MIT App Inventor | Image Editing with
Canva | Programming with Python and JavaScript | Designing
Circuits with Tinkercad | Artificial Intelligence & Robotics

HIGHLIGHTS

- Live Learning
- Tech Terms
- Natural Fact
- Think Tank
- Social Sight
- QR Quest
- Job Junction
- Hints & Hacks
- SDG Activity
- Group Gyan
- Ask AI Agent
- Fact File



Grades 1-8

Designed for
Joyful Learning Experience

SYLLABUS

Block-based Coding using ScratchJr & Scratch 3.0 |
Animation using Pivot Animator | Computational Thinking |
Artificial Intelligence & Robotics | MIT App Inventor |
Website Development using HTML5 & CSS3

HIGHLIGHTS

- Comic Strip
- Find on Google
- Mr. Techie
- Natural Fact
- SDG Activity
- Quiz Bee
- Info Mail
- Self Reflection
- Video Based Question
- Think Tank
- Pure Fact
- Group Discussion

TRACKPAD

PRO Ver. 5.1

Windows 11 & Office 2021





SYLLABUS

Painting with Paint & Tux Paint | Animation using Pivot Animator
 | Block-based Coding using Scratch | Computational Thinking |
 MIT App Inventor | Artificial Intelligence & Robotics | Python |
 Krita | Photo Editor & Video Editor | Google App | HTML5

CODEGPT

Ver. 4.0

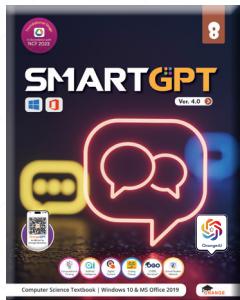
Windows 10 & Office 2019

HIGHLIGHTS

- My Selfie Page
- Test Your Knowledge
- Explore in the Lab
- A Better Me!
- Wow Tech
- Indian Heritage
- SDG Activity
- Natural Fact
- Think Tank
- Comic Story
- Factbot
- Hintbot

Designed for Young Innovators

Grades 1-8



Grades 1-8

Computer Science Textbook

SYLLABUS

Painting with Paint & Tux Paint | Block-based Coding using ScratchJr & Scratch 3.0 | Animation using Pivot Animator | Computational Thinking | MIT App Inventor | Artificial Intelligence & Robotics | Python | Krita | Photo Editor & Video Editor | Google App

SMARTGPT

Ver. 4.0

Windows 10 & Office 2019

5

HIGHLIGHTS

- My Selfie Page
- Test Your Knowledge
- Hintbot
- A Better Me!
- Wow Tech
- IT Buzz Words
- SDG Activity
- Natural Fact
- Think Tank
- Comic Story
- Factbot
- Explore in the Lab



NEW



TOUCHPAD

PLUS Ver. 4.0

Windows 10 & Office 2019

With New
Pedagogical Approach

Grades 1-8

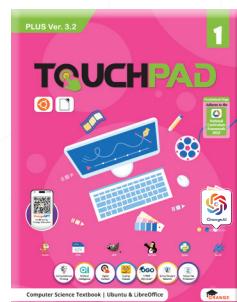


SYLLABUS

Draw using Tux Paint & Paint | Block-based Coding with ScratchJr, Blockly & Scratch 3.0 | Editing images with Krita | Developing Web pages with HTML5 & CSS 3 | Python | Computational Thinking | AI & Robotics | App Development

HIGHLIGHTS

- Take Off
- Job Prospects
- Go Online
- DIY in the Lab
- Comic Story
- Indian Heritage
- Art Integration Learning
- Factbot & Hintbot
- Experiential Learning
- Bring the Change (SDG)
- Interdisciplinary Learning



Grades 1-8

SYLLABUS

Block-based Coding using Blockly & Scratch 3.0 | Image Editing with GIMP | Creating animation using Tupi 2D | Programming with Python | Website Development using HTML5 & CSS 3 | Artificial Intelligence & Robotics

Easy Learning with
Open Source Software

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Hands-On
- Speech Drill
- Lab Session
- Check Point
- SDG Activity
- Natural Fact
- Project Work
- Mind Boggler
- Student Corner
- Think Tank

TOUCHPAD

PLUS Ver. 3.2

Ubuntu 24.0.4 & LibreOffice 24.2





SYLLABUS

Block-based Coding using ScratchJr, Scratch 3.0 & Google Blockly | Animation using Pivot Animator | MIT App Inventor | Programming with Python & MakeCode Arcade | Hands-On Experience with AI Connect | Reasoning and Critical Thinking

Computer Genius!

Ver. 2.1

Windows 10 & Office 2016 & 19

HIGHLIGHTS

- Let's Recap
- Lab Activity
- Fun Zone
- Info Hub
- Notes
- Do You Know?
- AI Game
- CBQ
- Tech Value
- Exercise
- Quest
- SDGs

CG
Pro

CG
Plus

CG
Prime

Grades 1-8



Grades 1-8



7

Coding and AI – Simplified for Young Minds

DIGICODE AI

Ver. 2.1

Windows 10 & Office 2016

SYLLABUS

Using Google Apps | Computational Thinking | Kodu Game | Block-based Coding using ScratchJr, Blockly & Scratch 3.0 | Image Editing using Krita | Programming with Python | Artificial Intelligence & Robotics

HIGHLIGHTS

- Tech Set Go!
- Tech Twister
- Think Tank
- Byte Fact
- Natural Fact
- AI Game
- Tech Ready
- SDG Activity
- Info Hub





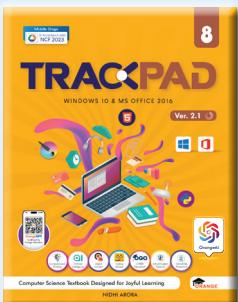
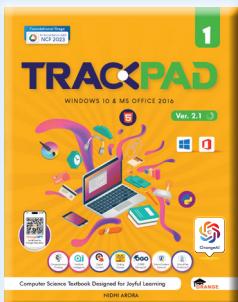
TRACKPAD

Ver. 2.1

Windows 10 & Office 2016

Designed for
Joyful Learning Experience

Grades 1-8



SYLLABUS

Drawing using Tux Paint & Paint | Animation using Pivot Animator | Computational Thinking | MIT App Inventor | Krita | Website Development Using HTML5 & CSS3 | Python | Artificial Intelligence & Robotics | Cyber Security | Data Science

HIGHLIGHTS

- Coding Zone
- Find on Google
- Video Based Question
- Think Tank
- SDG Activity
- QR Code for Answer Hint
- Natural Fact
- Pure Fact
- I Know

8

SYLLABUS

Paint | Block-based Coding with ScratchJr & Scratch 3.0 | Animation with Pivot Animator | Computational Thinking | Website Development using HTML5 & CSS3 | Artificial Intelligence & Robotics | Adobe Photoshop 2024

HIGHLIGHTS

- Tech Fact
- Tech Hint
- Let's Catch Up
- Tech Zone
- Let's Plug-in
- Factopedia
- Think Tank
- SDG Activity
- Natural Fact



Grades 1-8

Smart
Computer Science Textbook

TOUCHPAD

PLUS Ver. 2.2

Windows 10 & Office 2016





SYLLABUS

Block-based Coding with Scratch 3.0 | Design Webpages with HTML5 & CSS 3 | Image Editing with Photoshop | Animation with Animate | Programming with Python | Artificial Intelligence & Robotics | Algorithmic Intelligence

TOUCHPAD**PRIME Ver. 2.2**

Windows 10 & Office 2016

HIGHLIGHTS

- Fun Fact
- Soft Hint
- Word Bank
- Hands-On
- Find Out
- Group Task
- Think Tank
- SDG Activity
- Natural Fact

Simplified for Young Minds

Grades 1-8**Grades 1-8**

Designed for Simplified Learning

SYLLABUS

Drawing with Tux Paint & Paint | Block-based Coding with ScratchJr, Scratch 3.0 | Computational Thinking | Pivot Animator | HTML5 & CSS 3 | Image Editing with GIMP | Tupi2D | Python | AI & Robotics | Google App

TOUCHPAD**PLAY Ver. 2.1**

Windows 10 & Office 2016

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Hands-On
- In the Lab
- Explore More
- Glossary
- Think Tank
- SDG Activity
- Natural Fact

9





Workspace

Ver. 2.1

Windows 10 & Office 2016

Smart Learning Through
Coding and AI

Grades 1-8

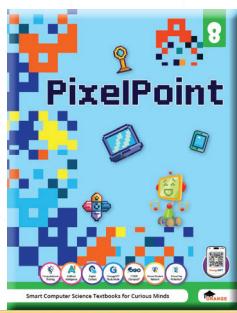
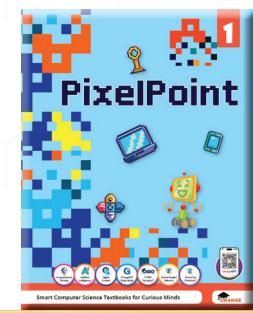


SYLLABUS

Using Google Apps | Computational Thinking | Kodu Game |
Block-based Coding using ScratchJr, Blockly & Scratch 3.0 |
Image Editing using Krita | Programming with Python |
Artificial Intelligence & Robotics

HIGHLIGHTS

- Tech Set Go!
- Tech Twister
- Think Tank
- Byte Fact
- Natural Fact
- AI Game
- Tech Ready
- SDG Activity
- Info Hub



Grades 1-8

SYLLABUS

Computer System | Network | Creating Media | Computational
Thinking | Programming | Data | Information | Digital Literacy

NEW

HIGHLIGHTS

- Visual Spark
- Tech Talk
- Check & Reflect
- Try it Yourself
- Tech Trivia
- Connect & Create
- Beyond the Screen
- Checkpoint Quiz
- Let's Explore
- Pro Tips
- Team Buzz
- Global Connect

Smart Textbooks for
Curious Minds

PixelPoint

Windows and Office





SYLLABUS

Drawing with Tux Paint & Paint | Block-based Coding with Scratch 3.0 | Computational Thinking | Artificial Intelligence & Robotics | Algorithmic Intelligence | Programming with Python

METAGPT

Ver 2.0

Windows 10 & Office 2016

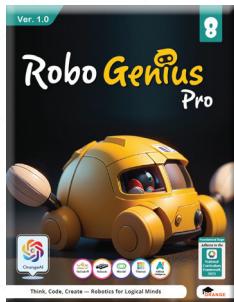
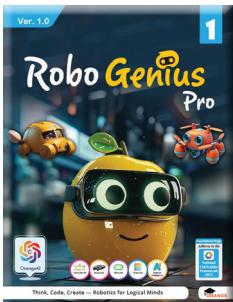
NEW

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Hands-On
- In the Lab

Simple Learning for Smart Minds

Grades 1-8



Grades 1-8



11

Think, Code, Create —
Robotics for Logical Minds

Robo Genius Pro

A Textbook of Robotics

SYLLABUS

Robots | AI | Circuits | Electronics | 3D Design | Smart Circuits | Sensors | Game Design | Innovation Challenge | IoT | Simulation | Data Logging

HIGHLIGHTS

- Hands-On
- Practical
- Material List
- Projects
- Activities with or without Kits



NEW



TOUCHPAD

MODULAR Ver. 4.0

Windows 10 & Office 2019

Computer Science:
Explore, Create, Innovate

SYLLABUS

Painting with Tux Paint | Block-based Coding using ScratchJr, Scratch & Blockly | Creating Animation using Pivot Animator & Tupi 2D | Mobile Apps Development | Programming with Python | Artificial Intelligence

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Keyboard Shortcuts
- Latest Trends
- Think Tank
- SDG Activity
- Hands-On
- Glossary
- Natural Fact

Grades 1-8



SYLLABUS

Painting with Tux Paint | Block-based Coding using Blockly, ScratchJr & Scratch | Creating Animation using Pivot Animator & Tupi 2D | MIT App Inventor | Programming with Python | Artificial Intelligence & Robotics

Computer Science
Textbook

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Keyboard Shortcuts
- Latest Trends
- Think Tank
- SDG Activity
- Hands-On
- Glossary
- Natural Fact

TOUCHPAD
MODULAR Ver. 2.1

Windows 10 & Office 2016





Digital literacy



Digital Health and Wellness



python



Digital Etiquette



Be Internet Awesome



Word



Windows 10



OrangeAI

SYLLABUS

Digital Literacy | Digital Health and Wellness | Cyber Safety |
 Programming with Python | Digital Etiquettes |
 Cyber Safety Games | Project Work

CYBER SAFETY

Windows 10 & Office 2016

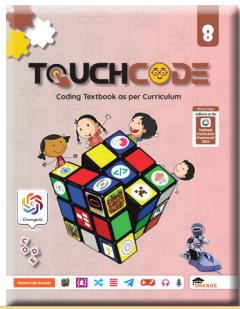
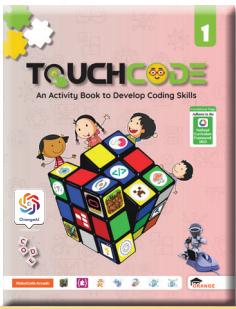
NEW

HIGHLIGHTS

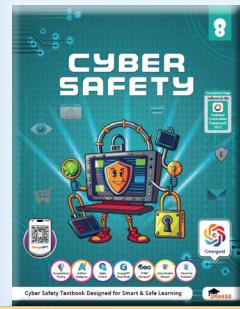
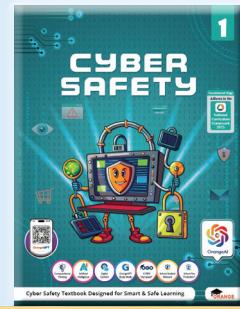
- Data Vault
- Video Session
- Net Shield
- Lab Activities
- Cybo Life Question
- Hex Zone
- Cyber Edge
- Data Scope
- Natural Fact

Designed for
Smart & Safe Learning

Grades 1-8



Grades 1-8



To Develop Coding Skills

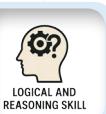
TOUCHCODE
(910) Coding

SYLLABUS

Computational Thinking Skills | Logical and Reasoning Skills |
 Critical Thinking & Data Analysis Processing |
 Algorithmic Intelligence | MakeCode Arcade | Minecraft |
 Programming with Python

HIGHLIGHTS

- Coding Fact
- Coding Quiz
- Coding Task
- Gamification
- Coding Buzz Words
- Coding Ethics
- Crack the Code
- Challenge
- Scoreboard





REVISED

ARTIFICIAL INTELLIGENCE

(901) Ver. 2.0

Aligned with the Latest
CBSE Curriculum

SYLLABUS

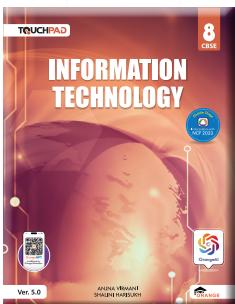
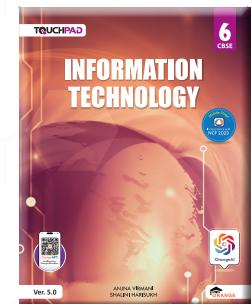
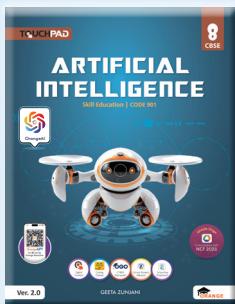
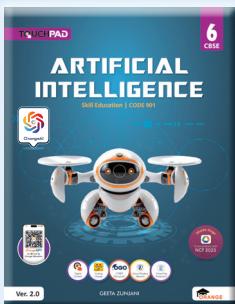
CBSE Skill Education

AI and Automation | Exploring AI Domains | Computer Vision and Its Applications | Introduction to Systems Thinking and System Map | Stages of AI Project Cycle | AI Ethics | Sustainable Development Goals

HIGHLIGHTS

- AI Reboot
- AI Task & AI Game
- AI Quiz
- AI in Life
- AI Deep Thinking
- AI Ready
- AI Lab
- AI Glossary & AI Innovators
- Brainy Fact

Grades 6-8



SYLLABUS

Windows 11 | Fundamentals of Computer I
Algorithm & Flowchart | Scratch 3.0 | Cyber Security I
Project Work

Grades 6-8

Aligned with the Latest
CBSE Curriculum

HIGHLIGHTS

- Code Clues
- Tech Trivia
- Boost Bits
- SDG Activity
- Digital Drills
- Quick Quip
- Think Tank
- Natural Fact
- Teachers' Turf

INFORMATION TECHNOLOGY

Ver. 5.0

Windows 11



Windows 11

Algorithm &
Flowchart

Scratch

CYBER SECURITY

OrangeAI

TRACKPAD | PLUS | PRIME |
PLAY | MODULAR | iPRIME

Ver. 1.0

Windows 7 & Office 2010

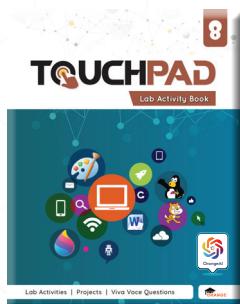
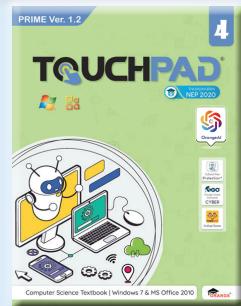
Grades 1-8

SYLLABUS

Drawing with Paint & Tux Paint | Block-based Coding with Scratch 2.0 | Design Webpages with HTML5 & CSS 3 | Image Editing with Photoshop | Animation with Flash CS6 | Python | Programming with BASIC-256 | Artificial Intelligence & Robotics

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Video Based Question
- Hands-On
- Tech Update
- Robotics
- Artificial Intelligence
- Speech Drill
- Coding Zone
- Find on Google
- Career Here
- Comp Caution



Grades 1-8

Practice Today,
Master Tomorrow!

TOUCHPAD
Lab Activity Books

SYLLABUS

Drawing with Tux Paint, Paint & Pivot Animator |
Block-based Coding using Scratch 3.0 | Design Webpages
with HTML | Programming with Python

HIGHLIGHTS

- Activity
- Project Work
- Viva Voce
- Hints

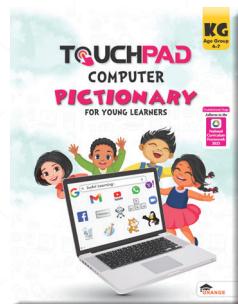
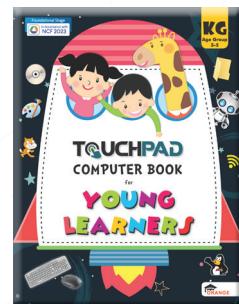


Play Gujarati**Modular Gujarati****SYLLABUS**

Drawing with Tux Paint & Paint | Block-based Coding using Scratch 2.0 | Programming with BASIC-256 & Python | Artificial Intelligence & Robotics | Design Webpages with HTML

Play Hindi**Play Marathi****HIGHLIGHTS**

- Tech Funda
- In the Lab
- Clickipedia
- Explore More
- Hands-On
- Glossary



Young Learners
Age group 3-5

Pictionary
Age group 4-7

SYLLABUS

Contain Trending Computer Related Words | Basic Concepts of AI | Information About Famous Computer Personality | Computational Thinking | Ways to Handle the Computer Cautiously

HIGHLIGHTS

- Fun Activity
- Computer Picture Dictionary
- Letter Tracing
- Artificial Intelligence
- Computer Alphabet Book
- Practice Worksheet
- Word Tracing
- Computer- Do's and Don'ts

TOUCHPAD**Pre-Primary Books**



SYLLABUS

CBSE Skill Education

Employability Skills | IT-ITeS Industry | Data Entry and Keyboarding | Digital Documentation | Digital Presentation | Electronic Spreadsheet | DBMS | Healthy, Safe and Secure Working Environment

INFORMATION TECHNOLOGY

(402) Ver. 4.0

Windows 10 & LibreOffice

HIGHLIGHTS

- Do You Know?
- Sneak Peek
- Lab Assignment 'N Activity
- Previous Year Questions with Answers
- Notes
- Projects
- Glossary
- Activity

Aligned with the Latest CBSE Curriculum

Grades 9 & 10



Grades 9 & 10

Aligned with the Latest CBSE Curriculum

SYLLABUS

CBSE Skill Education

Employability Skills | IT-ITeS Industry | Data Entry and Keyboarding | Digital Documentation | Digital Presentation | Electronic Spreadsheet | DBMS | Healthy, Safe and Secure Working Environment

IT - PLAY

(402) Ver. 1.0

Windows 10 & LibreOffice



HIGHLIGHTS

- Activity
- Practical Work
- Project Work

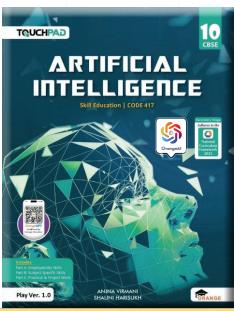
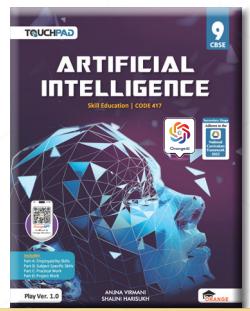
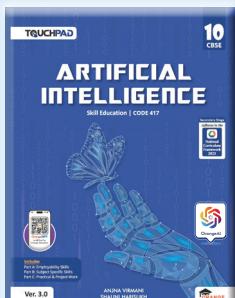
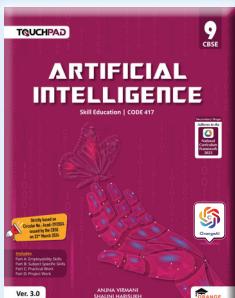


ARTIFICIAL INTELLIGENCE

(417) Ver. 3.0

Aligned with the Latest CBSE Curriculum

Grades 9 & 10



SYLLABUS

CBSE Skill Education

Employability Skills | AI Reflection, Project Cycle and Ethics | Data Literacy | Maths for AI | Generative AI | Python | Advanced Concepts of Modeling in AI | Evaluating Models | Statistical Data | Computer Vision | Natural Language Processing

Aligned with the Latest CBSE Curriculum

HIGHLIGHTS

- AI Reboot
- AI in Life
- AI Lab
- AI Task
- AI Deep Thinking
- AI Glossary
- AI Game
- AI Ready

AI - PLAY

(417) Ver. 1.0





SYLLABUS

CBSE Skill Education

Employability Skills | IT-ITES Industry | Data Entry and Keyboarding | Digital Documentation | Digital Presentation | Electronic Spreadsheet | DBMS | Healthy, Safe and Secure Working Environment

INFORMATION TECHNOLOGY

(402) Ver. 1.0

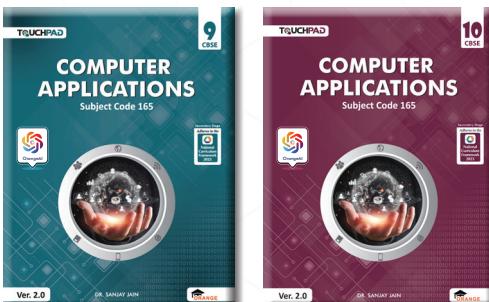
Windows 11 & LibreOffice

HIGHLIGHTS

- Quiz Bee
- Info Mail
- Career Here
- Find on Google
- Video Based Question

Aligned with the Latest CBSE Curriculum

Grades 9 & 10



Grades 9 & 10

Aligned with the Latest CBSE Curriculum

SYLLABUS

CBSE Skill Education

Basics of Information Technology | Cyber Safety | Word Processor | Presentation | Spreadsheet | Data Analysis | Networking | HTML | CSS | Cyber Ethics

COMPUTER APPLICATIONS

(165) Ver. 2.0

HIGHLIGHTS

- Do You Know?
- Notes
- Lab Assignment & Activity
- Projects
- Glossary
- Case Based MCQ
- Practical Work
- Application Based Questions
- CBSE Sample Question Paper





DATA SCIENCE

Aligned with the Latest
CBSE Curriculum

Grade 8 (911)

Grades 9 & 10 (419)

Grade 11 (844)

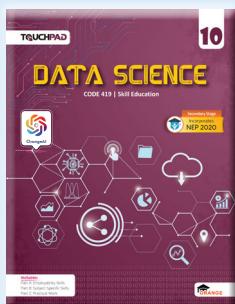
SYLLABUS

CBSE Skill Education

Communication Skills | Self Management Skills | ICT Skills |
Entrepreneurial Skills | Green Skills | Data Visualizations | Ethics |
Data Merging | RStudio | R

HIGHLIGHTS

- Do You Know?
- Activity
- Projects
- Glossary
- Higher Order Thinking Skills
- Applied Project



Computer Science
Textbook

Secondary Classes

SYLLABUS

HTML5 | CSS3 | Python | MySQL | App Development |
Ethics and Safety Measures in Computing | Web Publishing

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Explore More
- Keyboard Shortcuts
- Hands-On
- Glossary
- In the Lab
- Project Work
- OGO Cyber Sample Questions



Python

MySQL





SYLLABUS

Computer System and Organisation | Computational Thinking and Programming | Society, Law and Ethics | Python Programming | Computer Network | Database Management

Computer Science

(083)

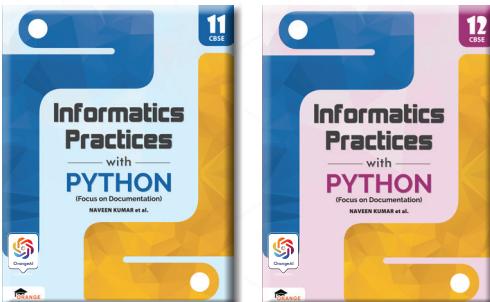
Focus on
Modularity & Documentation

HIGHLIGHTS

- Quick Shot
- Quick Quiz
- Coding Task
- Key Points
- Case-based Questions
- Solved & Unsolved Exercise
- Previous Year Questions
- Assertion Reasoning-based Questions

Aligned with the Latest
CBSE Curriculum

Grades 11 & 12



Grades 11 & 12

Aligned with the Latest
CBSE Curriculum

Informatics Practices

(065)

Focus on Documentation

SYLLABUS

Computer System | Python | Database concepts | Structured Query Language | Emerging Trends | Programming Practical | Data Handling using Pandas | Computer Networks | Social Impacts

HIGHLIGHTS

- Quick Shorts
- Quick Quizzes
- Coding Tasks
- Key Points
- Case-based Questions
- Solved & Unsolved Exercise
- Previous Year Questions
- Assertion Reasoning-based Questions



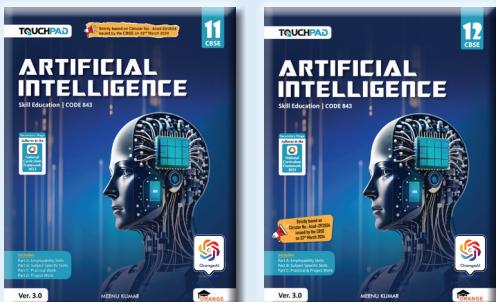


ARTIFICIAL INTELLIGENCE

(843) Ver. 3.0

Aligned with the Latest
CBSE Curriculum

Grades 11 & 12

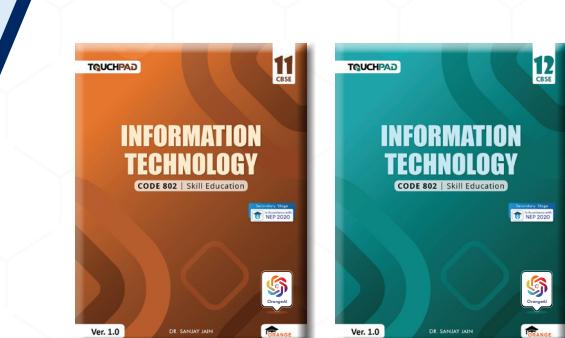


SYLLABUS CBSE Skill Education

Employability Skills | AI Reflection, Project Cycle and Ethics | Data Literacy | Maths for AI | Generative AI | Python | Advanced Concepts of Modeling in AI | Evaluating Models | Statistical Data | Computer Vision | Natural Language Processing

HIGHLIGHTS

- AI Reboot
- AI Task
- AI Game
- AI in Life
- AI Deep Thinking
- AI Ready
- AI Lab
- AI Glossary & AI Innovators
- Ice-Breaker Activity



Grades 11 & 12

SYLLABUS CBSE Skill Education

Employability Skills | Computer Organisation | Networking and Internet | Office Automation Tools | RDBMS | Java | Operating Web-Based Applications | Work-Integrated Learning IT-DMA

Aligned with the Latest
CBSE Curriculum

HIGHLIGHTS

- Do You Know?
- Notes
- Lab Assignment & Activity
- Projects
- Glossary

INFORMATION TECHNOLOGY

(802) Ver. 1.0





SYLLABUS

CBSE Skill Education

Communication Skills | Self-Management Skills | ICT Skills | Entrepreneurial Skills | Green Skills | Networking | HTML & CSS | Javascript | Multimedia Design Using GIMP | Emerging Trends | Canva | Adobe Express | Cyber Safety & Security

WEB APPLICATIONS

(803) Ver. 2.0

HIGHLIGHTS

- Do You Know? → Notes → Lab Assignment & Activity
- Projects → Glossary → Practical Work
- Sample Question Paper

Aligned with the Latest CBSE Curriculum

Grades 11 & 12



Grades 11 & 12

Aligned with the Latest CBSE Curriculum

Design Thinking and Innovation

(848)

SYLLABUS

CBSE Skill Education

Employability Skills | Design Thinking and Innovation | Publication and Information Design | Canva | Design for Product | Introduction to Indian Knowledge System | Design for Personal, Public and Social Spaces

HIGHLIGHTS

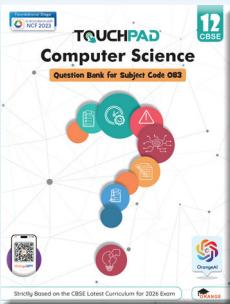
- Learning Objectives
- Did You Know?
- Chapter Recall
- Case Study
- SDG Activity
- App Byte
- DT Task Game Time
- Solved and Unsolved Questions
- DT Task
- Video Session
- Lab Activity



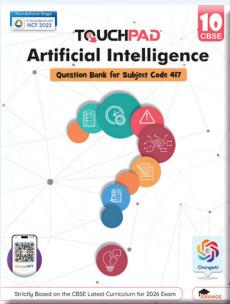
NEW

23

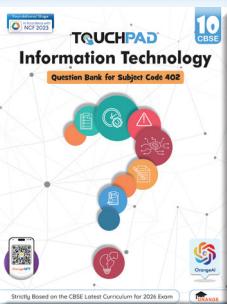
Computer Science



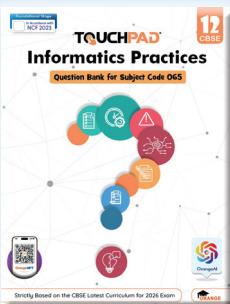
Artificial Intelligence



Information Technology



Informatics Practices



SYLLABUS

Questions are based on the revised pattern issued by CBSE.

HIGHLIGHTS

- Quick Revision Notes
- Common Errors with Solutions
- Mind Maps
- Case Based Questions
- NCERT Exercise Solutions
- From the Experts
- Short and Long Answer Questions
- Solved & Unsolved Practice Papers

Grades 1-8

SYLLABUS

Block-based Coding using Scratch 3.0 | MIT App Inventor | Website Development using HTML5 & CSS 3 | Java Programming with BlueJ DBMS | Networking | Cloud Computing | Cyber Safety | AI & Robotics

HIGHLIGHTS

- Code Clues
- Tech Trivia
- Higher Order Thinking Skills
- QR Code
- Boost Bits
- SDG Activity
- Digital Drills
- Think Tank
- Natural Fact

Computer Science Textbook

TRACKGPT
iPRO Ver. 5.0

Windows 11 & Office 2021





SYLLABUS With Glimpses of Windows 11

Block-based Coding using Scratch 3.0 | MIT App Inventor |
 Website Development using HTML5 & CSS 3 |
 Java Programming with BlueJ | Computational Thinking |
 AI & Robotics | Cyber Security

HIGHLIGHTS

- Tech Funda
- Clickipedia
- Comp Caution
- Hands-On
- Tech Update
- SDG Activity
- Higher Order Thinking Skills
- Think Tank
- Glossary

TRACKPAD

iPRO Ver. 4.1

Windows 10 & Office 2019

Mastering Essential Computer Science Skills

Grades 1-8



Grades 1-8



25

With Glimpses of Windows 11

TOUCHPAD

iPLUS Ver. 2.1

Windows 10 & Office 2016

SYLLABUS

Block-based Coding using Scratch 3.0 | MIT App Inventor |
 Website Development using HTML5 & CSS 3 | Java Programming |
 with BlueJ | Cyber Security | Cloud Computing |
 Artificial Intelligence | Computational Thinking

HIGHLIGHTS

- Quick Byte
- Info Byte
- Be Creative
- Crack the Code
- IT Buzz Words
- Life Skills and Values
- SDG Activity
- Think Tank
- Higher Order Thinking Skills





TOUCHPAD

iPRIME Ver. 2.2

Windows 10 & Office 2016

With Glimpses of
Windows 11

Grades 1-8

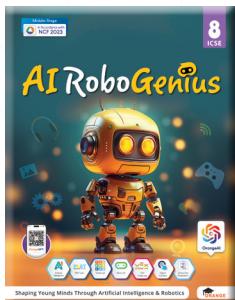
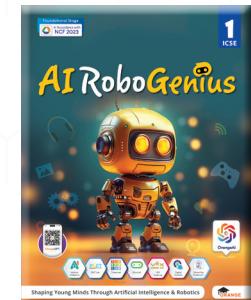


SYLLABUS

Block-based Coding using Scratch 3.0 | MIT App Inventor | Website Development using HTML5 & CSS 3 | Java Programming with BlueJ | Tux Paint | AI & Robotics

HIGHLIGHTS

- Tech Funda
- AI & Robotics
- Glossary
- Crack the Code
- Clickipedia
- SDG Activity
- Higher Order Thinking Skills
- Speech Drill
- Hands-On
- Think Tank



Grades 1-8

SYLLABUS

Robots | AI | Circuits | Electronics | 3D Design | Smart Circuits | Sensors | Game Design | Innovation Challenge | IoT | Simulation | Data Logging

Shaping Young Minds
Through AI and Robotics

HIGHLIGHTS

- Hands-On
- Practicals
- Material List
- Activities with or without Kits
- Projects

NEW

AI Robo Genius
ICSE AI & ROBOTICS





SYLLABUS

Drawing with Tux Paint & Paint I Block-based Coding with Scratch 3.0 I Design Webpages with HTML I Java Programming with BlueJ

TOUCHPAD

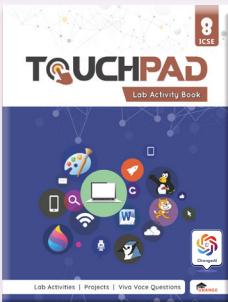
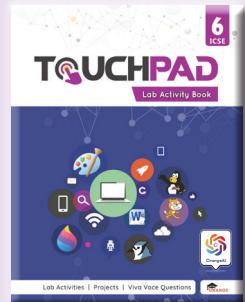
Lab Activity Books

HIGHLIGHTS

- Activity
- Project Work
- Viva Voce

Hands-On Learning for Bright Minds

Grades 6-8



Grades 9 & 10

Aligned with the Latest ICSE Curriculum

COMPUTER APPLICATIONS (086) Ver. 2.0

With BlueJ (Java)

SYLLABUS

Object-Oriented Programming I BlueJ I Computing and Ethics

27

HIGHLIGHTS

- Definition
- Notes
- Some More Programs
- Most Common Programming Mistakes
- Project
- Previous Years' Questions
- Glossary
- Internal Assessment





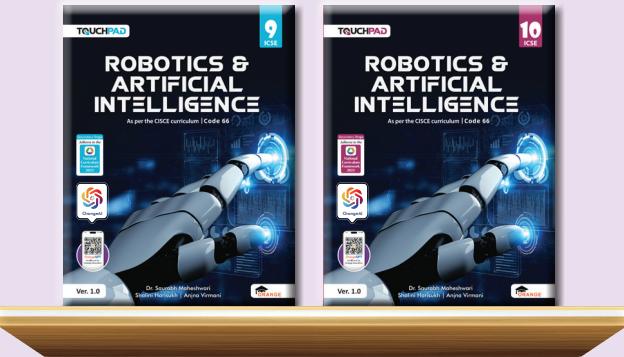
ROBOTICS & AI

(66) Ver. 1.0

Windows 10 & Office 2016

Aligned with the Latest
ICSE Curriculum

Grades 9 & 10



SYLLABUS

Concepts of Robotics | Artificial Intelligence | Programming with Python | AI Concepts and AI framework | From Robots to Cobots | Machine Intelligence and Cybersecurity in Computing

HIGHLIGHTS

- Brainy Fact
- Game
- Reboot
- Quiz
- AI Innovators
- Glossary
- Task
- Deep Thinking



Grade 11

SYLLABUS

Robots Senses | Power of AI in Robotics | Project Cycle and Ethics | Data Literacy | Maths for AI | Generative AI | Python | Advanced Concepts of Modeling in AI | Evaluating Models | Statistical Data | CV | NLP | Robot Kinematics | Planner Mechanisms

NEW

HIGHLIGHTS

- Brainy Facts
- Task
- AI in Life
- Ready
- Lab
- Robotic Stories
- Ice-Breaker Activity

Aligned with the Latest
ISC Curriculum

ROBOTICS ARTIFICIAL INTELLIGENCE





Java with BlueJ



Algorithm & Flowchart



Java

Coding
Concepts

DATA STRUCTURE



Global Impact



OrangeAI

SYLLABUS

Object-Oriented Programming | BlueJ | Computing and Ethical Issues | Algorithms | Computational Complexity

Computer Science

(868) Ver. 2.0

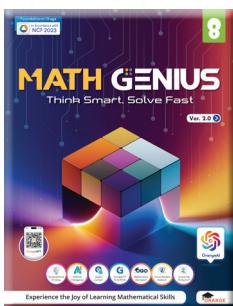
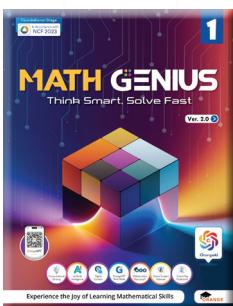
With BlueJ (Java)

HIGHLIGHTS

- Definition
- Some More Programs
- Previous Years' Questions
- Internal Assessment
- Most Common Programming Mistakes
- Notes
- Keyboard Shortcuts
- Glossary
- Sample Project

Aligned with the Latest
ISC Curriculum

Grades 11 & 12



Grades 1-8

Think Smart,
Solve Fast!

MATH GENIUS

Ver. 2.0

SYLLABUS

Based on Latest NCERT Syllabus

Number System | Operations on Numbers | Basic Geometry |
Symmetry and Patterns | Maps and Positioning | Measurements |
Time and Money | Data Handling

HIGHLIGHTS

- Get Ready!
- Mental Maths
- Activity
- Maths Talk
- Teacher's Tip
- Fast Check!
- Maths Connect
- Maths Fun
- Gamified Learning
- Think Tank
- Project
- Get it Right!
- Puzzle
- Knowledge Desk
- Challenge Question



NEW

29

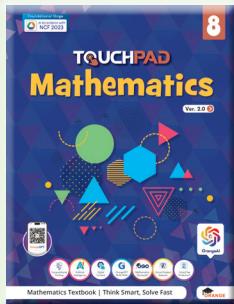
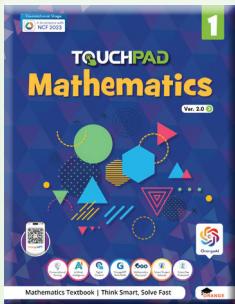


TOUCHPAD Mathematics

Ver. 1.0

Maths that
Grows with You!

Grades 1-8



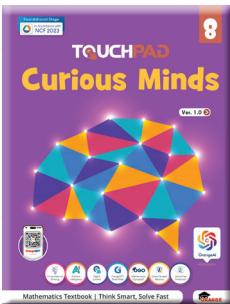
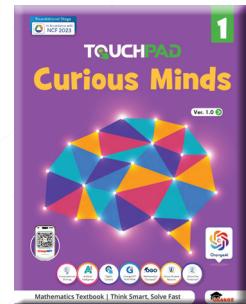
SYLLABUS

Based on Latest NCERT Syllabus

Number Systems | Operations on Numbers | Basic Geometry |
Symmetry and Patterns | Map and Positioning |
Unit Measurements | Time and Money | Data Handling

HIGHLIGHTS

- Warm Up!
- Tips/Remember
- Mental Maths
- HOTS
- Math lab Activity
- Project/Puzzle
- Challenge Questions
- Fun Activity
- Pinch of History



Grades 1-8

SYLLABUS

Based on Latest NCERT Syllabus

Number Systems | Operations on Numbers | Basic Geometry |
Symmetry and Patterns | Map and Positioning |
Unit Measurements | Time and Money | Data Handling

Think Smart,
Solve Fast!

NEW

HIGHLIGHTS

- Picture-Based Questions
- Reading Map
- Match the Columns
- Crossword Fun
- In and Out

TOUCHPAD Curious Minds

Ver. 1.0



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21st CENTURY SKILLS

Learning Skills (4Cs)

- Critical Thinking
- Creativity
- Communication
- Collaboration



Literacy Skills (IMT)

- Information Literacy
- Media Literacy
- Technology Literacy



Life Skills (FLIPS)

- Flexibility
- Leadership & Responsibility
- Initiative
- Productivity & Accountability
- Social Interaction



Workshops/Webinars

Orange Education provides free Workshops/Webinars for Students and Teachers.

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- ➔ Artificial Intelligence
- ➔ Gamification in Learning
- ➔ Adobe Animate/Filmora
- ➔ GIMP/Krita/Photoshop
- ➔ Computational Thinking & Coding
- ➔ Online Ethics and Safety Measures
- ➔ Google Blockly/Kodu Game
- ➔ Tinkercad/Thunkable
- ➔ Code.org/Python
- ➔ Stress Management
- ➔ Classroom Management
- ➔ NEP 2020 & NCF-SE 2023
- ➔ Indian Knowledge System
- ➔ High-Impact Teaching Skills
- ➔ MakeCode Arcade
- ➔ Maths Activities
- ➔ Playing With Maths
- ➔ System of Numeration

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