

SCRATCH

python™



SMART

PHP

C#

HTML

# CODERS

STEP INTO THE WORLD OF PROGRAMING

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# GRADE 1 CURRICULUM



## UNIT 01



**Topics** - Introduction to block coding, artist lab game, various blocks in it and how to code with artist lab and capstone projects

**How it helps** -Skill building, Foundation in coding, Concept clarity, Block coding

## UNIT 02



**Topics** - Introduction to Dance Lab, Algorithm development, Location orientation, Debugging, Design animations

**How it helps** - Logic building, Code flow, Critical thinking

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project

**How it helps** - Analytical skills, Problem solving, Confidence boosts

### Platform



### Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects



# GRADE 2 CURRICULUM

SCIENCE OUTSAY

## UNIT 01



**Topics** - Drag and drop function, Sprite objects, Commands, Sequencing, Events, Time and Direction, Behaviour & Events, Sounds

**How it helps** - Skill building, Foundation in coding, Concept clarity, Block coding

### Platform



## UNIT 02



**Topics** - Debugging and completing code, topic formation

**How it helps** - Logic building, Code flow, Critical thinking

### Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project

**How it helps** - Analytical skills, Problem solving, Confidence boosts



# GRADE 3 CURRICULUM



## UNIT 01



**Topics** - Sprites, Commands, Sequencing, Events, Time and Direction, Behaviour & Events, Sounds, Sensing blocks

**How it helps** -Skill building, Foundation in coding, Concept clarity, Block coding

Platform

SCRATCH

## UNIT 02



**Topics** - Debugging and completing code, topic formation

**How it helps** - Logic building, Code flow, Critical thinking

Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project

**How it helps** - Analytical skills, Problem solving, Confidence boosts



# GRADE 4 CURRICULUM



## UNIT 01



**Topics** - Blockly introduction, programming concepts, flowchart, block to text based coding

**How it helps** -Skill building, Foundation in coding, Concept clarity, Block coding

## UNIT 02



**Topics** - Algorithm, number system introduction, dry running

**How it helps** - Logic building, Code flow, Critical thinking

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project

**How it helps** - Analytical skills, Problem solving, Confidence boosts

Platform



Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects



# GRADE 5 CURRICULUM



## UNIT 01



**Topics** - Introduction to MSWord, shortcuts and tricks, using the alignment and formatting tabs, inserting, layout designing

**How it helps** - Skill building, Foundation in coding, Concept clarity

## UNIT 02



**Topics** - Introducing to MS Excel, shortcuts and tricks, using the alignment and formatting tabs, inserting, layout designing

**How it helps** - Skill building, Code flow, Critical thinking

## UNIT 03



**Topics** - Introducing to MS PPT, shortcuts and tricks, using the alignment and formatting tabs, inserting, layout designing

**How it helps** - Skill building, Code flow, Critical thinking

### Platform



### Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects



# GRADE 6 CURRICULUM



## UNIT 01



**Topics** - Intro to HTML5, Editor, Web development, Heading, Body, Links, Media elements in HTML and how to use, Tables & Formatting

**How it helps** -Skill building, Foundation in coding, Concept clarity

## UNIT 02



**Topics** - Attributes, debugging, Intro to CSS3, Multi page website design, Style attributes, UI/UX concepts

**How it helps** - Logic building, Code flow, Critical thinking

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project

**How it helps** - Analytical skills, Problem solving, Confidence boosts

Platform

HTML



Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects



# GRADE 7 CURRICULUM



## UNIT 01



**Topics** - Design basics, Logo/Poster design, Brand kit, Fonts & Colour choices, Video editing, Presentation flow in Canva

**How it helps** -Skill building, Foundation in coding, Concept clarity

## UNIT 02



**Topics** - UI/UX concepts, swot analysis, decision making, introduction to entrepreneurship

**How it helps** - Logic building, Code flow, Critical thinking

## UNIT 03



**Topics** - Video editing, Skills of a youtuber, Brand visibility, Template based designing, Use of brand kit in design, Capstone project

**How it helps** - Analytical skills, Problem solving, Confidence boosts

### Platform



### Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects





# GRADE 8 CURRICULUM



## UNIT 01



**Topics** - Intro to Python, Google collab editor, Datatypes and Variables, Operators & Operands, Control structures, Repetitive statements

**How it helps** -Skill building, Technological skills, Problem solving, Analytical skills

Platform



## UNIT 02



**Topics** - Turtle module, GUI concepts of Tkinter, Tuples & Lists, Modules, Random, Application of Tkinter, Algorithm design for Game and APP development

**How it helps** - Logic building, Code flow, Critical thinking

Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project

**How it helps** - Exploration mindset, Problem solving, Cognitive ability



# GRADE 9 CURRICULUM



## UNIT 01



**Topics** - Introduction to JavaScript, datatype, variables, operators, control statement, functions, objects, arrays and capstone project

**How it helps** -Skill building, Foundation in coding, Concept clarity, Block coding

## UNIT 02



**Topics** - Intro to bootstrap, CSS libraries, Forms in HTML page and its applications, Animation in a website

**How it helps** - Logic building, Technological skills, Scientific thinking

## UNIT 03



**Topics** - Self application conceptualization, Self projects, Debugging marathon, Capstone project, host a website

**How it helps** - Cognitive ability, Exploration mindset, Problem solving

### Platform



### Inclusions

- All Practical Classes
- 30 Classes
- 15 Concept Classes
- 15 Project Classes
- Assessment
- Quizzes
- Class Summary
- Practice Projects



## THE SALIENT FEATURES AND BENEFITS OF SCIENCEUTSAV WORKSHOPS:



**Get career ready with futuristic technologies**



**STREAM approach enables children think smart**



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# Certificate of Completion





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