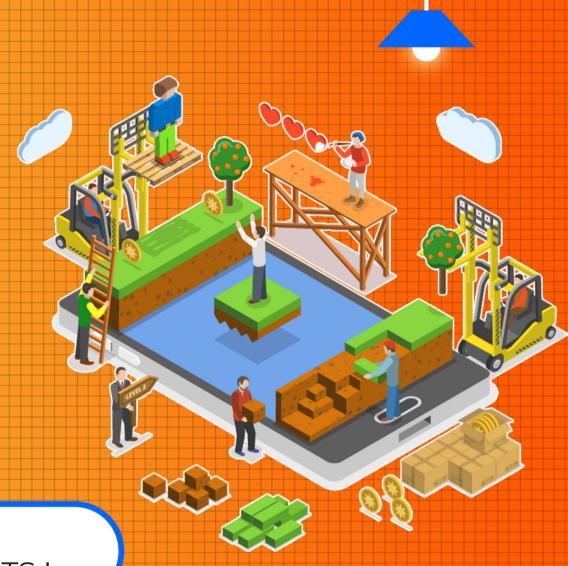


# GAME DEVELOPMENT GRADE 3-5



### COURSE HIGHLIGHTS!

- BUILD 10 REAL WORLD GAMES
- Live 48 Hours of Sessions
- 48 hours Self Learning Session
- Build student confidence working with computers & professional software
- Create animations & Cool visual effects
- Understand complex computer science concepts by intuitively applying them in games
- Build Real World Application like
   Super Mario lite, Ping-pong, Maze game,
   hide & seek game
- Projects based on academics curriculum like food cycle, how plant grow, solar system etc
- Certificate of course completion
- LMS Access Pre-recorded videos,
   Documents, Assignments, Codes







# COURSE REQUIREMENTS



- No coding experience required
- Laptop, computer or a tablet
- Access to the internet





# WHAT YOU'LL LEARN IN THE COURSE





Use simple logic to solve complex problems in game development



Controlling the game using Input controls



Story making and publishing



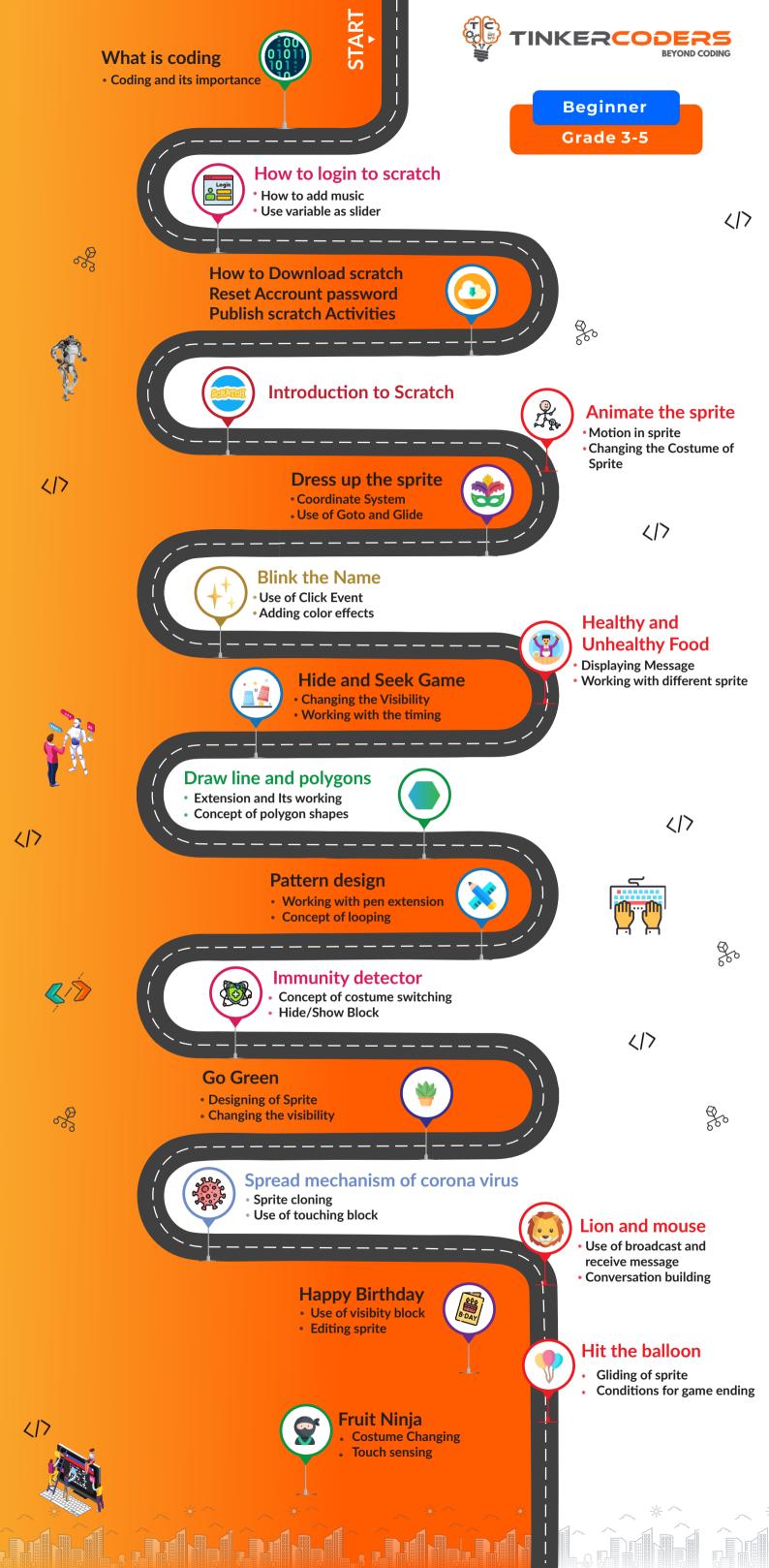
Lives and countdown timers



**Text and speech recognition** 



Concepts like collision detection, object movements, object animations etc.











# HOW THIS COURSE WILL HELP YOUR CHILD



#### CIC approach

Consumer to innovator to the creator

This course aims to turn the student from a consumer of technology to the creator of technology.

#### Activity-Based learning

Learn the required programming concepts by performing activities

#### Project - Based Learning

Learn the required programming concepts by performing activities
Instead of a theoretical and traditional way of lear

Instead of a theoretical and traditional way of learning, students will build projects during the course.

#### Our PBL approach will help student in

Allows students to acquire key knowledge & skills through the development of projects that respond to real-life problems
Develop critical thinking

Retain the concept

Integration of different concepts

## COURSE OUTLINE

## Beginner

Session Number	Activity name	Туре
	What is coding	Coding and its importance
	How to login to scratch	Creating account in scratch Overview of Scratch platform
	How to Download scratch Reset Account password Publish scratch Activities	
	Introduction to Scratch	
1	Animate the sprite	Motion in sprite Changing the Costume of Sprite
2	Dress up the sprite	Coordinate System Use of Goto and Glide
3.	Blink the Name	Use of Click event Adding color effects
4.	Healthy and Unhealthy Food	Displaying Message Working with different sprite
5.	Hide and Seek Game	Changing the Visibility Working with the timing Adding Variable of score
6.	Draw line and polygons	Extension and Its working Change of pen size and color Concept of polygon shapes
7.	Pattern design	Pen blocks Concept of looping
8	Immunity detector	Use of Switch Adding message for alarm Setting multiple alarms
9	Go Green	Designing of Sprite Changing the visibility
10	Spread mechanism of corona virus	Cloning and its use Moving sprite in random place
11	Lion and mouse	Use of broadcast & receive message Conversation building
12	Happy Birthday	Painting of sprite Use of visibility block Costume changing
13-14	Hit the balloon	Gliding of sprite Adding score feature
15-16	Fruit Ninja	Costume changing Adding new sound and sprite Touch sensing

## COURSE OUTLINE

### Intemmediate

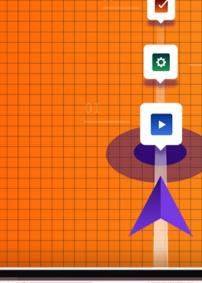
Session Number	Activity name	Learning Outcome
1	How to grow plant	Resizing & reshaping sprite Use of keyboard keys
2	Bike racing game	Speed controlling Controlling bike with arrow keys
3-4	Catch the Apple	Variable use Idea behind gravity
5-6	Save Gobo sprite (Video sensing)	Use of video sensing Concept of If-else block
7-8	Maze Game	Painting new backdrop Color sensing
9-10	Solar System	Setting different orbits Code for planet rotation
11-12	Flying cat	AND OR operator concept Go to random position
13-14	Astronout on moon	Idea behind animation Change of backdrop Use of Positional block
15-16	Dinosaur running game	Creating background Changing score with timer

## **COURSE OUTLINE**

### Advance

Session Number	Activity name	Learning Outcome
1-2	Jump the chick	Creating background Changing score with timer
3-4	Big fish V/s small fish	Painting Big & small fish Eating fish according to size
5-6	Soccer game with video sensing	Sensing motion in sprite Concept of movement
7-8	Table tennis game	Painting backdrop Color sensing
9-11	Gun and ghost	Concept of touching Use Of timer Setting gun direction
11-14	Super Mario Lite	AND OR operator concept Go to random position Changing level
15-16	Scratch Quiz	Idea behind animation Change of backdrop Use of Positional block







## OTHER COURSES



Web development



Game Development



Artificial Intelligence & Machine learning



Android & iOS
Application
Development



App Development



Python

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