

## Syllabus For Grade 9 – Scratch Beginner

Video Tutorials – 20 hours video + 15 hrs live sessions + 5 hrs assessments

1. Scratch Introduction
2. Motion Block Introduction
3. **Activities and assessments**
4. Motion Block Advanced
5. Go to Random Block
6. Glid to Random Block
7. **Activities and assessments**
8. Events Block
9. Control Block
10. **Activities and assessments**
11. Looks Block
12. Say Block
13. **Activities and assessments**

**Learning Outcomes:** Learning outcomes of scratch beginner are highlighted below

Lesson 1	Introduction - Basic Movements
Lesson 2	Plotting Shapes, Drawing in Game Lab, Shapes and Parameters
Lesson 3	Variables, Random Numbers
Lesson 4	Sprites, Sprite Properties, Sprite Movement
Lesson 5	Flying Bird
Lesson 6	Animated birth day card
Lesson 7	Party Theme
Lesson 8	Story Telling
Lesson 9	Conversation of two sprites using voice recording
Lesson 10	Mini-Project - Captioned Scenes
Lesson 11	The Draw Loop
Lesson 12:	Mouse Catching Game
Lesson 13	Mini-Project - Animation
Lesson 14	Conditionals, Mouse Input, Keyboard Input
Lesson 15	Road Crossing Game
Lesson 16	Fruit Catcher
Lesson 17	Hide and Seek
Lesson 18	Shark Attack
Lesson 19	Shooting Game
Lesson 20	Ball and Paddle Game
Lesson 21	Quiz Game
Lesson 22	Basketball Game
Lesson 23	Football Game
Lesson 24	:Maze Game
Lesson 25	Project - Interactive Card
Lesson 26	Velocity
Lesson 27	Collision Detection
Lesson 28	Mini-Project - Side Scroller
Lesson 29	Complex Sprite Movement
Lesson 30	Mini-Project - Flyer Game

**Syllabus For Grade 10 – Scratch Advanced**  
**Video Tutorials – 20 hours video + 15 hrs live sessions + 5 hrs assessments**

1. Scratch Introduction
2. Events Block
3. **Activities and assessments**
4. Control Block
5. Looks Block
6. Block Breaker
7. **Activities and assessments**
8. Music Video and Music Tool
9. Math Equation Solver
10. **Activities and assessments**
11. Apple Catch and Flapping Bird game
12. 2D Tank and Mole Mash game
13. Adventure, Quiz and Tycoon Game
14. **Activities and assessments**

**Learning Outcomes:** Learning outcomes of scratch advanced are highlighted below

Lesson 31	Make a project that allows users with a webcam to use their body to play.
Lesson 32	Inform other users about something you enjoy.
Lesson 33	A comedy sketch to make people laugh but make it child-friendly and not
Lesson 34	A simulation of anything you like which could even teach people about that
Lesson 35	Support a charity by making a project about them to raise awareness, just don't force users to donate.
Lesson 36	Make your own music using the Scratch music tool.
Lesson 37	Make a film, you could even get voice actors by using the record tool available on Scratch.
Lesson 38	An arcade with some cool games in it that could use a token system if you
Lesson 39	A project telling people important data like the time and date for example.
Lesson 40	A project allowing people to create their own music, game, story or art in the project.
Lesson 41	Let people get to know you by making a project about you but don't include anything personal or something that you wouldn't want anyone to know. Ask an adult if you're unsure whether to share it or not.
Lesson 42	A newsletter informing people what's happening on Scratch and around the world.
Lesson 43	A project advertising your friend's project. Help them like you would want someone to help you.
Lesson 44	A chat bot.
Lesson 45	<b>A quiz.</b>
Lesson 46	Thank people.
Lesson 47	Trade work with other people
Lesson 48	Make a meme for LOLs
Lesson 49	Open a contest
Lesson 50	A platformer game.
Lesson 51	A building tool.
Lesson 52	Tycoon game.
Lesson 53	Amazing facts.
Lesson 54	Explore real life concepts by trying to create a force such as gravity.
Lesson 55	Mole mash game
Lesson 56	Create a tool for people to use.
Lesson 57	Make a computer simulator.
Lesson 58	Announce any changes that you might have made to your account, just
Lesson 59	History themed project.
Lesson 60	Try to predict the future.
Lesson 61	Make a project to help you or others with school.
Lesson 62	Make a project for people to remix.
Lesson 63	Fan fiction.
Lesson 64	An adventure game. Note that if it has violence it can't be featured though
Lesson 65	A city creator
Lesson 66	Make a music video.
Lesson 67	Scorched Earth / Worms / Gorillas / Angry Birds
Lesson 68	Description: Players control tanks on a 2D hilly terrain and enter the numeric
Lesson 69	Any mathematical equation solver and graph drawing application. No of roots may be multiple and imaginary(complex no).
Lesson 70	Scratch IOT projects where you can control movements of objects using your voice.



