



3D, VR & AR Game Dev

Block Coding Curriculum

AR/VR/3D Concepts

- 3D Designing3D Objects3D TextsSoundsAnimation

Coding Concepts

- SequencingEventsVariablesConditionsLoops



3D Game Development (12 Hours)



3D Planet/City

Design your own Virtual 3D Planet

Session 1-2

[\[View Project\]](#)

3D/AR/VR Concepts

3D Environment, 3D Objects, Textures, Terrains



3D Google Doodles

Design a Google Doodle Art in 3D

Session 3-4

[\[View Project\]](#)

Coding Concepts

Events, Sequencing

3D/AR/VR Concepts

Doodles, Colors



Deadpool Dancing

Learn 3D animations and code a dancing Deadpool

Session 5-6

[\[View Project\]](#)

Coding Concepts

Mouse Events, Sequencing

3D/AR/VR Concepts

3D Objects, Texts, Custom Animations



Musical Concert

Explore sounds & colors by designing a 3D concert

Session 7-9

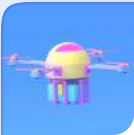
[\[View Project\]](#)

Coding Concepts

Mouse Events, Sequencing

3D/AR/VR Concepts

3D Objects, Sound, Colors



Flying Drone in 3D

Code an exciting flying drone in 3D environment

Session 10-12

[\[View Project\]](#)

Coding Concepts

Key Press Events & 3D Coordinate Geometry

3D/AR/VR Concepts

Position, Rotation, Scale



Virtual Reality (8 Hours)



VR Greeting Card

Design a personalized greeting card in VR

Session 13-15

[\[View Project\]](#)

Coding Concepts

Events, Conditional Statements

3D/AR/VR Concepts

Texts, Particle Systems



Art Museum VR Tour

Build and experience of a virtual museum in Hatch

Session 16-18

[\[View Project\]](#)

Coding Concepts

Conditional Statements, Keyboard Events

3D/AR/VR Concepts

Lights, Sounds, 3D Environment, Cursor



Underwater Travel

Create a 360 underwater ocean world in VR

Session 19-20

[\[View Project\]](#)

Coding Concepts

Conditional Statements, Operators, Strings

3D/AR/VR Concepts

Water Animation, Bubble Animation, Position, Dynamic Movements



Augmented Reality (4 Hours)



Human Heart

Code an Interactive Human Heart Model in AR

Session 21-24

[\[View Project\]](#)

Coding Concepts

Conditional Statements, Variables, Loop, List

3D/AR/VR Concepts

Visibility, Texts, Animations

Ready for the full Lesson Plans?

Our team will meet you to understand your requirements, customize curriculum accordingly, and share lesson plans and projects. It's all free.



Schedule a call with our Team