Tynker Programming 201 Curriculum Overview Table

Lesson	Title	Topics
1	Introduction	Identify and order steps
		Use loops
		Create an alien-themed project
2	Loops and Animation	Use code blocks to animate Actors
		Add a background and music to a scene
		Solve coding puzzles
		Create animated projects
3	Creating a Scene	Use code blocks to animate Actors
ı		Add a background and music to a scene
		Solve a coding puzzle
		Create a Dance Party project
4	Jumping Over Obstacles	Use code blocks to program Actors to move in different directions
		Use negative numbers
		Apply knowledge of x- and y-coordinates
5	Storytelling	Use speech bubbles to make Actors have a conversation
		Use speech bubbles and delays to convey meaning and emotion
		Create a comic-book style conversation between characters
6	User Interaction	Use keyboard (web) or tilt controls (mobile) to move characters
		Create unique controls to move Actors
7	Guessing Game	Apply conditional logic to create an interactive quiz game
		Use conditional statements ("if", "if-else")
8	Rotation	Apply math concepts such as rotation and degrees
		Rotate and flip Actors
9	Alien Invaders	Discuss different types of games
		Make Actors move to random screen locations
		Apply math concepts such as degrees and x/y-coordinates
10	Music and Animation	Use code blocks to add background music to the main Actor in a scene
		Set how fast music plays

		Apply coding concepts to create musical projects
11	Instruments and Tempo	Discuss different instruments
		Set how fast music plays
		Use code blocks to create interactive music projects
12	Broadcasting Messages	Use code blocks to make Actors and the background play music
		Program Actors to send and receive messages
		Apply coding concepts to solve a puzzle module
13	Time Limits	Program a game to end after a specified number of seconds 2/3
		Apply coding concepts to solve a puzzle module
		Use code blocks to create an arcade game.
14	Message Driven	Use messaging code blocks to send multiple messages to Actors
	Programming	Program Actors to dance and perform different animations
		Apply coding concepts to solve a puzzle module.
15	Pop the Balloon	Create 2 different clicking games
		Use code block to create a balloon popping game
		Use code blocks to send and receive messages between Actors
16	Animation with Movement	Use code blocks to combine animation with movement
		Use variables
		Use code blocks to send a message to make an Actor move, animate, and play a sound
		Create a dancing game
17	Obstacle Course	Use code blocks to program Actors to move randomly across the Stage and bounce off the
		edge
		Use code blocks to program Actors to follow a mouse pointer (web) or touch
		location(mobile)
		Create an obstacle course game