

Category	SubCategory	Topics	4yrs - 6yrs	Actual (What you're currently aware of)	
Programming	Swift	OOPS vs POPS	Y	Advanced	
		Access Controls	Y	Advanced	
		Optionals	Y	Advanced	
		Conditionals(If else, guard, loops and Switch)	Y	Advanced	
		Collections & Tuples	Y	Intermediate	
		Functions	Y	Advanced	
		Closures(Types & Capture Values)	Y	Advanced	
		Classes, Strcture & Enums	Y	Advanced	
		Properties (Types (Stored, Computed, Lazy) Observers)	Y	Advanced	
		Protocols	Y	Advanced	
		Extension	Y	Advanced	
		Exception & Error Handling	Y	Intermediate	
		Generics	Y	Beginner	
		High Order Functions(Sorted, Filter, Reduce, CompactMap, FlatMap, Map, KeyPath)	Y	Advanced	
		Async Await	Y	Intermediate	
		Actors, Task	Y	Beginner	
		Comparable, Equatable and Hashable protocol	Y	Beginner	
		Subscript	Y	Intermediate	
		Associated Types, Opaque Types	Y	Beginner	
		Property Wrappers	Y	Intermediate	
		Attributes	Y	Intermediate	
	Objective C	OOPs	O	Beginner	
		Mutable vs IMMutable	O	Beginner	
		Conditionals & Control Flow	O	Beginner	
		Collections & Functions	O	Beginner	
		Classes, Strcture & Enums	O	Beginner	
		Blocks	O	Beginner	
		Properties	O	Beginner	
		Protocols	O	Beginner	
		Categories, Class Extensions	O	Beginner	
		Exception & Error Handling	O	Beginner	
		High Order Functions (Predicates, Sorting, KeyPath)	O	Beginner	
		Autorelease Pool / Release Object process	O	Beginner	
	PreProcessor	O			
Declarative Programming	Swift UI	Basic Controls	Y	Beginner	
		App & Controls Lifecycles	Y	Beginner	
		Tab, Navigation, Stacks, Maps	Y	Beginner	
		Data Flow (State, Binding, Enviremental, Pushlised, Obseravable)	Y	Beginner	
		Layout System	Y	Beginner	
		UIViewRepresentable	Y	Beginner	
		UIViewControllerRepresentable	Y	Beginner	
		UIHostingController	Y	Beginner	
Reactive Programming	Combine	Publisher & Subscriber	Y	Beginner	
		Subjects	Y	Beginner	
		Operators	Y	Beginner	
		Schedulers	Y	Beginner	
		Transformations	Y	Beginner	
		Events	Y	Beginner	
		RXSwift	Observable	O	
	Subjects		O		
	Drivers		O		
	Filters		O		
	Behaviour Relay		O		
	Events		O		
	Marble Diagrams		O		
	Transformations		O		

		Schedulers	O	
IDE	XCode	Overview	Y	Advanced
		Source Control	Y	Advanced
	Project / Workspace	Schemes	Y	Intermediate
		Targets	Y	Intermediate
		Multitargets	Y	Intermediate
		Build Config	Y	Intermediate
		Project Structure	Y	Intermediate
	Dependency Manager	CocoaPods	Y	Advanced
		Carthage	O	Beginner
		Swift Package Manager	Y	Beginner
	Debugging	LLDB Compiler	Y	Intermediate
		Break Pointer	Y	Intermediate
		Exceptions / Zombie Objects	Y	Beginner
		Error Handling	Y	Beginner
	Instruments	Allocation	Y	Beginner
		Activity Monitor	Y	Beginner
		System Trace	Y	Beginner
		Time Profiler	Y	Beginner
		Leaks	Y	Beginner
		Energy	Y	Beginner
		Network	Y	Beginner
		Layout	Y	Beginner
App & Environment	Application	Launch Event/Delegate Methods	Y	Intermediate
		LifeCycles/ States	Y	Intermediate
	Scenes	Window Scene	Y	Beginner
		Scene Events	Y	Beginner
User Interface	UIViewController	Lifecycles	Y	Advanced
		Model Events (Present / Dismiss)	Y	Advanced
	UINavigationController	Lifecycles	Y	Advanced
		Push / Pop Events	Y	Advanced
	UITabBarController	Lifecycles	Y	Intermediate
		Parent Child Relationship	Y	Intermediate
		Customisation	Y	Intermediate
	UISplitViewController	Lifecycles	Y	Intermediate
		Parent Child Relationship	Y	Intermediate
	Storyboard / XIB	Storyboard / XIB	Y	Intermediate
	Layouts	AutoLayout	Y	Advanced
		Anchors	Y	Advanced
		Autoresizing	Y	Advanced
		Size Classes	Y	Advanced
		Visual	O	Beginner
		Multi Window Support	Y	Intermediate
		Dark Mode	Y	Intermediate
	Asset Catalog	Icons / Images / PDF	Y	Beginner
Core Concepts	Location	Location Permission	Y	Beginner
		GPS and Cellular tower	Y	Beginner
		GeoCoding (Reverse and Forward)	Y	Beginner
		Geo Fencing and Region monitoring	Y	Beginner
	Maps	Apple Map With Annotation	Y	Intermediate
		Draw Route Overlay	Y	Beginner
		Google Map with Marker	Y	Beginner
		Draw Route Overlay	Y	Beginner
		Indore Maps		

		Micello / Jibestream	O	
	Camera	Permission	Y	Beginner
		UIImagePickerController	Y	Beginner
		AVCaptureSession	Y	Beginner
	Audio	Permission	Y	Beginner
		AVPlayer	Y	Beginner
		AVAudioPlayer	Y	Beginner
		AVAudioRecorder	Y	Beginner
		AVPlayerController	Y	Beginner
	Video	Permission	Y	Beginner
		AVPlayer	Y	Beginner
		AVPlayerController	Y	Beginner
		DRM Playback	O	Beginner
		UIImagePickerController	Y	Beginner
	Address Book	Permission	Y	Beginner
		CNContactPickerViewController Listing	Y	Beginner
		Add, Edit and Delete Contacts (CNContact)	Y	Beginner
	Events	Permission	Y	Beginner
		EventPicker	Y	Beginner
		Load Events	Y	Beginner
		Add Reminder	Y	Beginner
	Notification	Permission	Y	Intermediate
		Push Notification Basic	Y	Intermediate
		Push Notification + Deep Linking	Y	Intermediate
		Rich Notification	Y	Intermediate
		Local Notification	Y	Intermediate
		Manage Events and alerts	Y	Intermediate
	Concurrency	NSThread	Y	Intermediate
		NSOperation & NSOperationQueue	Y	Intermediate
		GCD - Dispatch Queue (Serial, Concurrent & Main)	Y	Intermediate
		GCD - Dispatch Queue (Dispatch Work Item, Dispatch Barrier)	Y	Intermediate
		Dispatch Group, Dispatch Semaphor, locks	Y	Intermediate
	Image Caching	NSOperationQueue	Y	Beginner
		Kingfisher / SDWebImage	Y	Beginner
	Drawing	Paint	Y	Beginner
		Bitmap	Y	Beginner
		PDF	Y	
				Beginner
	Animation	View Animation	Y	Beginner
		Core Animation	Y	Beginner
		Lottie	Y	Beginner
	Localisation	String File Localisation	Y	Intermediate
		Bundel, User Interface	Y	Intermediate
		RightToLeft language support	Y	Intermediate
	Sensors	Motions & Accelerometer	Y	Beginner
	Unit Testing	Writing Test Cases	Y	Intermediate
		Working with mock objects	Y	Intermediate
		Testing delegates	Y	Intermediate
		Common unit testing techniques	Y	Intermediate
		Code Coverage	Y	Intermediate
	UITesting	XCTest	O	Beginner
	Performance	Battery performance	Y	Beginner
		Reduce App Size	Y	Beginner
		Memory Management	Y	Beginner

	Data Security	SSL Pinning	Y	Intermediate
		Cryptography		Intermediate
		Keychain	Y	Intermediate
		Code Obfuscation	O	Beginner
		OWASP	Y	Intermediate
	Social Media	Sign / Sharing - Facebook	Y	Intermediate
		Sign / Sharing - Twitter	Y	Intermediate
		Sign / Sharing - Instagram	Y	Intermediate
		Sign / Sharing - Google	Y	Intermediate
		Sign with Apple	Y	Intermediate
		UIActivityController	Y	Intermediate
		YouTube	Y	Intermediate
Design Patterns & Architecture Ty	Design Patterns	Singleton	Y	Advanced
		Decorator	Y	Beginner
		Observer	Y	Beginner
		Memento	Y	Beginner
		Adaptor	Y	Beginner
		Facade	Y	Beginner
		Factory	Y	Beginner
	Architecture	VIPER	Y	Intermediate
		VIP	Y	Intermediate
		MVVM	Y	Advanced
		MVP	Y	Beginner
		MVC	Y	Advanced
Networking & Data Management	Networking	NSURLSession	Y	Advanced
		Almofire / AFNetworking	Y	Intermediate
		Third Party + Operation Queue	Y	Beginner
		Graph QL	O	Beginner
		Authetication Challenge	Y	Beginner
		WebSockets	Y	Beginner
	Data Parsers	XML Parser		Beginner
		NSXMLIParser	Y	Beginner
		Touch XML, KissXML TBXML	O	Beginner
		JSON Parsing		
		NSJsonSerilisation	Y	Advanced
		JSONEncoder and JSONDecoder	Y	Intermediate
Persistance Storage	File Storage	XML / Json / CSV etc	Y	
	User Defaults	Add / Edit / Fetch / Delete	Y	Advanced
	Plist	Add / Edit / Delete	Y	Intermediate
	Sqlite	Sqlite Basic	Y	Beginner
		Third Party (FMDB,GRDB)	Y	Beginner
		Versioning and Migration	Y	Beginner
	Core Data	Core Data	Y	Intermediate
		Versioning and Migration	Y	Beginner
	Third Party			
		Realm	O	Beginner
		Realm - Versioning and Migration	O	Beginner
		firebase	O	Beginner
Apple Watch	Apple Watch	Architecture	O	
		Controls	O	
		Data Sharing	O	
TV OS	TV OS	Architecture	O	Beginner
		Controls	O	Beginner
		Data Sharing	O	Beginner
		Cursors	O	Beginner
Advance Concepts	Spotlight Search	NSUserActivity	O	

		Core Spotlight	O	
		Web Markup	O	
	App Extension	Share, Action, Photo Editing	Y	
		Document Provider, Custom Keyboard	Y	
		Today Widget	Y	
	3D Touch	Peek and Pop	Y	
		Detecting Force	Y	
		Home Screen Quick Actions	Y	Intermediate
	Payment Gateway	In-App Purchase + Guidelines	Y	Beginner
		Apple Pay	Y	Beginner
		Third Party (CCAvenue / BillDesk / Mobikwik / Paypal etc)	O	Intermediate
	Custom URL Scheme	URL Scheme	Y	Intermediate
	Connectivity	BLE, IOT, WIFI, NFC etc	Y	
	OCR	Tesseract	O	
		Abby	O	
		Vision	Y	
	App Clip	App Clip	O	Beginner
	AR	ARKit	O	Beginner
		Third Party (Meta io, Wikitude, Layer etc)	O	
	Chat	Third Party (QuickBlox / Agora / Firebase etc)	O	Intermediate
	Video Calling	Third Party (QuickBlox / Agora / WebRTC / OpenTok etc)	O	
	Custom Framework	XCFramework	Y	
		Fat Framework	Y	
	Machine Learning	Core ML	Y	
Deployment & Version Control	App Distribution	AppThining	Y	
		Test Flight	Y	Advanced
		App Store Distribution + Review Guideline	Y	Intermediate
		Enterprise Distribution	Y	Advanced
		MDM Distribution	O	
	Version Control	Git / SVN	Y	Advanced
	CICD	Jenkins/ Fastlane / Bitrise / App Center / Gitlab / GitHub / Circle CI	O	Beginner
	Static Code Analysis	Lint	Y	
		Apple Analyser	Y	
		Third Party(Sonar Qube etc)	O	
Tools	Documentation	Header Doc	Y	
		Doxygen	Y	
	Project Management	Asana	O	
		JIRA	O	Advanced
		Trello	O	Intermediate
Firebase	Firebase	Cloud Messaging	Y	Intermediate
		Realtime Database	Y	Intermediate
		Cloud Storage	Y	Intermediate
		Analytics	Y	Intermediate
		Crash Reporting	Y	Intermediate
		Authentication	Y	Intermediate
		Adwords	Y	Intermediate
		ABTesting	Y	Intermediate

		Firebase App Distribution	Y	Intermediate
		Firebase Config	Y	Intermediate

Legend	
Y	Must Have
O	Good to have
N	Not required

