

Category	Subcategory	Topics	6+ yrs	Actual (What you're currently aware of)
Programming	Java	Variables & DataTypes	Y	Advanced
		Operator's & Loop's	Y	Advanced
		OOP's concepts	Y	Advanced
		1) Object & Class	Y	Advanced
		2) Inheritance	Y	Advanced
		3) Polymorphism	Y	Advanced
		4) Abstraction	Y	Advanced
		5) Encapsulation	Y	Advanced
		Methods & Constructors	Y	Advanced
		static, this, final, super Keyword	Y	Advanced
		Interfaces	Y	Advanced
		String class and its functions	Y	Advanced
		Collections(Array, List, Map, Set)	Y	Advanced
		Exception Handling	Y	Advanced
		Thread Management(Multi-Threadi	Y	Advanced

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	kotlin	val, var, lateinit & lazy initialization	Y	Advanced
		Features of Kotlin	Y	Advanced
		DataTypes, Operators & Loops	Y	Advanced
		Null Safety	Y	Advanced
		Functions & Constructors	Y	Advanced
		1) Higher Order Function	Y	Advanced
		2) Inline Function	Y	Advanced
		3) Kotlin Lambdas	Y	Advanced
		4) Kotlin Extension Function	Y	Advanced
		Data Class & Sealed Class	Y	Advanced
		String class and its extension functions	Y	Advanced
		Interfaces	Y	Advanced
		Collections(Array, List, Map, Set)	Y	Advanced
		Exception Handling	Y	Advanced
		Coroutine	Y	Advanced

Android studio	IDE overview		Y	Advanced
	Project structure		Y	Advanced
Android components	Activity	Lifecycle	Y	Advanced
		Task & Backstack	Y	Advanced
	Services		Y	Advanced
	Broadcast receivers		Y	Advanced
	Content Providers		Y	Advanced
	Intent	Explicit & implicit intent	Y	Advanced
		Intent Filters	Y	Advanced
	UI	LinearLayout & RelativeLayout	Y	Advanced
		ConstraintLayout	Y	Advanced
		CoordinatorLayout	Y	Advanced
		MotionLayout	Y	Advanced

	Custom Ui Views	Canvas	Y	Advanced
		Bitmap	Y	Advanced
		Paint	Y	Advanced
	UI resources	Drawables	Y	Advanced
		Strings	Y	Advanced
		Styles	Y	Advanced
	Fragment	Lifecycle	Y	Advanced
		Backstack	Y	Advanced
	Build	Gradle	Y	Advanced
		Debug/ Release configuratiin	Y	Advanced
		Flavours	Y	Advanced

	Threading	Thread	Y	Advanced
		Handler/Looper	Y	Advanced
		ThreadPoolExecutor	Y	Advanced
	Debugging	Memory profiling	Y	Intermediate
		Logging	Y	Advanced
		Systrace	Y	Intermediate
		Exceptions	Y	Advanced
		Error Handling	Y	Advanced
	Memory leak	Detecting and Fixing Memory Leaks	Y	Advanced
		Context	Y	Advanced
	Third Party Libraries	Image Loading	Y	Advanced
		Glide	Y	Advanced
		Picasso	Y	Advanced

		Fresco	Y	Advanced
		Coil	Y	Intermediate
		Universal Image Loader	Y	Advanced
	Coroutine	coroutines	Y	Advanced
		suspend	Y	Advanced
		launch,async-await, withContext	Y	Advanced
		dispatchers	Y	Advanced
		scope,context,job	Y	Advanced
		lifecycleScope, viewModelScope,	Y	Advanced
		suspendCoroutine, suspendCancellableCoroutin	Y	Advanced
		coroutineScope, supervisorScope	Y	Advanced
	Kotlin Flow API	Flow Builder, Operator, Collector	Y	Intermediate
		flowOn, dispatchers	Y	Intermediate
		Operators such as filter, map, zip, flatMapConcat,	Y	Intermediate

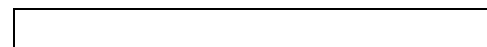
		Terminal Operators	Y	Intermediate
		Cold Flow vs Hot Flow	Y	Intermediate
		StateFlow, SharedFlow, Callback Flow,	Y	Intermediate
		ChannelFlow		Intermediate
	Data formats	Json	Y	Advanced
		Gson	Y	Advanced
		Protocol Buffer	Y	Intermediate
		Flat Buffer	Y	Intermediate
	Networking	GET/POST/DELETE/PUT/PAT CH	Y	Advanced
		OKhttp, Interceptor	Y	Advanced
		Caching	Y	Advanced
		Retrofit with Coroutines/Flow	Y	Advanced
		Multipart Request	Y	Advanced
		Read, Write Timeout	Y	Advanced

		OAuth 2.0 - Refresh and Access Token	Y	Advanced
		HTTP Status Codes	Y	Advanced
Android jetpack	1 -Foundation components	AppCompat	Y	Advanced
		Android KTX	Y	Advanced
		Multidex	Y	Advanced
	2 -Architecture components	LiveData	Y	Advanced
		View Model	Y	Advanced
		DataBinding	Y	Advanced
		Paging	Y	Advanced
		Work Manager	Y	Advanced
		Navigation	Y	Advanced
	3 -Behaviour Components	Download Manager	Y	Advanced
		Media Playback	Y	Advanced
		Notification	Y	Advanced

		Permissions	Y	Advanced
		Preference	Y	Advanced
		Sharing	Y	Advanced
		Slice	Y	Advanced
	4 - UI Component	Animation & Transition	Y	Advanced
		Android Auto	Y	Beginner
		Emoji	Y	Intermediate
		Palette	Y	Intermediate
		Android TV	Y	Beginner
		Android Wear	Y	Beginner
	Compose	State: remember, rememberSaveable,	Y	Advanced
		Recomposition	Y	Advanced
		State hoisting	Y	Advanced
		Side-effects	Y	Advanced
		Modifier	Y	Advanced

		Theme	Y	Advanced
		Layout, List	Y	Advanced
		Gestures, Animation	Y	Advanced
		CompositionLocal	Y	Advanced
Common	Common Design Patterns	Builder Pattern	Y	Advanced
		Singleton	Y	Advanced
		Dependency Injection	Y	Advanced
		Factory	Y	Intermediate
		Observer	Y	Advanced
		Repository	Y	Advanced
	Architecture	MVC	Y	Advanced
		MVP	Y	Advanced
		MVVM	Y	Advanced
		MVI	Y	Intermediate
		Clean	Y	Intermediate
	Unit Testing	Local Unit Testing	Y	Advanced
		Instrumentation Testing	Y	Advanced

	firebase	FCM	Y	Advanced
		Crashlytics	Y	Advanced
		Analytics	Y	Advanced
		Remote Config	Y	Advanced
		App Indexing	Y	Advanced
		Dynamic Link	Y	Advanced
		Authentication(Google, Facebook)	Y	Advanced
	Security	Encrypt/Decrypt	Y	Advanced
		Proguard	Y	Advanced
		R8	Y	Advanced
	App releases	.Keystore File	Y	Advanced
		App Bundle	Y	Advanced
		Playstore	Y	advanced



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Legend
Must Have
Good to have
Not required

