To set up your Dev Environment:
Download & Install SDK- http://developer.android.com/sdk/installing.html

ADB (Android Debug Bridge) - very useful command line tool for debugging/logging
http://developer.android.com/guide/developing/tools/adb.html

Quick Start
Create a project, manipulate the look and feel:
http://developer.android.com/resources/tutorials/hello-world.html

Android Fundamentals - an Overview:
http://developer.android.com/guide/topics/fundamentals.html

Main Building Blocks of an Android app (you don't necessarily need all of these)
Activities & **Activity Life cycle**:
The presentation layer, e.g. a screen that the user sees. An application typically has
multiple activities, and the users flip back and forth among them
EXTREMELY IMPORTANT! YOU MUST KNOW THIS!
http://developer.android.com/guide/topics/fundamentals/activities.html

Intents:
Asynchronous messages which allow the application to request functionality from other
services or activities - *ALSO SUPER IMPORTANT!*
http://developer.android.com/guide/topics/intents/intents-filters.html

Resources - how to get screen layouts, colours, images into your app
http://developer.android.com/guide/topics/resources/index.html

Services - perform background tasks and don't have any UI components
http://developer.android.com/guide/topics/fundamentals/services.html

Content Providers - interfaces for sharing data between applications
http://developer.android.com/guide/topics/providers/content-providers.html

Broadcast Receiver - a system-wide publish/subscribe mechanism, receives system
messages and implicit intents
http://developer.android.com/reference/android/content/BroadcastReceiver.html

Other components:
User Interface
Overview - http://developer.android.com/guide/topics/ui/index.html

Layouts - http://developer.android.com/guide/topics/ui/layout-objects.html

Adapters - http://developer.android.com/guide/topics/ui/binding.html

Threading
General - http://developer.android.com/guide/topics/fundamentals/processes-andthreads.html

Async Task - http://developer.android.com/reference/android/os/AsyncTask.html

Networking
HttpClient library: http://hc.apache.org/httpcomponents-client-ga/examples.html

Tutorial: http://hc.apache.org/httpcomponents-client-ga/tutorial/html/index.html

Sample Code – **VERY USEFUL FOR REFERENCE!**
Full list of samples - http://developer.android.com/resources/browser.html?tag=sample

API Demo (recommended) - Lots of UI demos: layouts, views, preferences, menus, etc
Note Pad (recommended) - adapter views, content provider, data access, intents
Install the samples - http://developer.android.com/resources/samples/get.h