**Mobile Phone Features**

Extended Course > Session 1 – Launch > Mobile Phone Features

| **Function** | **What it does** | **Apps which use it** |
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| Accelerometer | Measures tilt and motion; also capable of detecting when the phone is rotated from portrait to landscape. | * **Nike+** - tracks distance and speed of your run * **Sleep Time** - tracks how much you move around in your sleep to gauge your sleep cycle |
| Back camera | Takes images and detects visual data. | * **Shop Savvy Barcode Scanner** - scans barcodes to compare price of a product with other stores * **Prizmo** - converts photo of printed text into an electronic document which can be edited |
| Call | Converts voice into an electrical signal which is transmitted as radio waves to another person’s phone and converted back into sound. | * **Ignore No More** - locks phone so the only function available to teens is to call their parents back |
| Cloud storage | Stores information on multiple data servers so you can access information at any time. | * **Google Drive** - gives you access to online files * **8tracks** - users create playlists and cover art using tracks stored on the cloud |
| Contacts | Stores phone numbers, emails etc of people you know. | * **Twitter** - searches your contacts to suggest people you may know * **Humin** - organises your phone contacts by how you know them |

| Front camera | Takes images. | * **Mirror** - flips the front camera image to a mirror * **Frontback** - takes a photo with front and back camera simultaneously, then merges them into a single photo that shows both what you’re looking at and your reaction |
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| GPS/geolocation | Satellite transmits signals to a GPS receiver which determines the location. | * **Foursquare/Swarm -** lets you check in and find restaurants etc in your area * **Uber** - finds taxis based on your location |
| Gyroscope | Sensor which uses gravity to orient a smartphone. | * **Flight simulator** - game which uses ‘gyro controls’ * **Gyrosynth** - a gesture-driven music synthesiser |
| Microphone | Detects audio and converts sound energy into electrical energy. | * **Shazam** - captures a sample of audio, identifies it by comparing with files in the app’s database and searches for related material online * **Sound Meter** - records noise and detects the loudness in decibels, useful for supporting noise complaints |
| Near Field Communications (NFC) | Enables short-range communication between compatible devices. | * **Google Wallet** - allows you to make contactless payments |

| Notifications | Sends notifications to your phone. | * **RememberTheMilk** - to-do list which reminds you when you have an item that’s due * **WhatsApp** - notifies you if you have a new message |
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| SMS messaging | Sends text messages. | * **Last Message** - sends messages to important people to let them know your battery is about to run out * **BroApp** - sends automated ‘romantic’ texts |
| Touchscreen | Allows the user to interact with a computer by touching areas on the screen. | * **Mailbox** - lets you sort your emails by swiping left to delete, right to archive or read later, etc * **Brushes** – an interactive paint app |