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| Mobile Phone | Comparison | Digital Camera |
| The main disadvantage of phones is the quality is not the best. Because mobile phones are getting much slimmer/ smaller and more powerful much of the hardware is too big for the device to handle. Also because phones are used for other things like phoning people the battery life dies down much more quickly than a camera. A phones quality of photo is also much worse than a camera because of the lens size, the lens on a high tech camera are bigger than the average mobile phone! So because mobile phones are trying to stay small a portable a big lens is stupid. | Digital cameras are usually much better on the quality of the photo however; mobile phones can do a lot more. They have 1000’s of apps that are helpful in entertainment and navigation etc. A Digital camera only has a single purpose which is to record and take images. That’s why the highest quality photos are taken from a digital camera. Overall I think that a phone is better because not only can it take ok quality photos but you can phone people, use them like a sat nav. You can do almost anything with a phone and they are usually much easier to take around. | Digital cameras are a lot bigger that mobile phones and usually need a mini bag so they are easier to transport. The lens on camera average out at about 4 inch which makes it even harder to transport. However the picture quality/capture is very good compared to a mobile phone the images are high quality and resolution. This could be due to a camera purpose is to just take photo instead of being a helpful extension that has been added on. Digital camera also save the files as a RAW which means it good quality but large in file size. |
| Image manipulation on mobile phones is getting much better; this is mainly due to applications that are available to download via 3G. These apps consist of Photoshop Express and Instagram etc. These apps allow photographs that have been taken via the phone to manipulate with filters, adding text, frames etc. However most phones will not have a default application for editing. This means that you will not be able to manipulate photos un less you have a 3rd party app which may cost (another limitation). The main limitation of a phones manipulation is that no app is installed as default. | Mobile phones in this case would be much better at editing; this is because of all the apps available to download. Even though these are 3rd party applications and are good for editing on the phone but most of them do cost which is a limitation. Mobile phones are also generally easier to edit on this is because many mobile phones are touch screen which makes editing much easier, however a Digital Camera is mainly buttons and only the modern expensive ones are touch screen. This means when editing on digital camera, buttons makes it much harder and not as ergonomic. | A digital camera doesn’t have as many effects as you would on a computer which makes it not very good for manipulating images on the camera. You are not able to install apps to a Digital Camera this means apps that are good for editing cannot be installed to the device. Even with some of the effects available to edit with, most cameras have a small screen which makes images quite hard to edit. Most cameras have small screens because the lens takes up most of the space and the high quality components inside. The effects available are also not that good because it isn’t the purpose. |
| Most mobile phones will already have internal memory installed. This is a disadvantage because you cannot upgrade the memory size unless you buy a better version of the phone which cost a lot of money. Other mobiles however leave you to buy you own memory card for the device this is a disadvantage because it cost money. To overcome this memory overload problem, mobile phones save the images taken as a JPEG which a small compressed file of the photo. However, this is a disadvantage because when editing the JPEG images loses quality compared to its original RAW file. | In comparison I would say that a Digital Camera is better at image storage this is because not only do most Digital cameras have internal memory but they also have an accessible memory card slot. Compared to mobile phones which either have one of the two. A Digital camera also does not compress the image which keeps it RAW and very nice to edit with because the image has not lost any quality. However RAW files are much bigger than a JPEG meaning more memory will be needed, A JPEG also is a good enough quality for a phone, not editing but general people’s needs.  | Digital cameras also usually have an internal memory which is fairly small and not good to depend on. But they also have a slot for you own memory card. However, memory cards range from a price of around £10-£100. For the top range memory cards which are large in space, fast at copying and small (easily transportable) cost around £75. This will be an extra expensive thing to buy for a camera. A digital camera also saves the images taken as a RAW and doesn’t compress the image into certain file type. But this is a disadvantage because a RAW file type is large in size, which means you need memory. |

Hardware & Software Limitations M1

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| Microsoft Paint | Comparison | Photoshop CS6 |
| Microsoft paint has a huge limitation in image capture this is mainly because it doesn’t do it. Microsoft Paint was only designed for editing/manipulating images that have already been taken. Microsoft paint is also only software which means it was not designed for taking images because it is not a device. The only good Microsoft image capture software is the basic ‘Snipping Tool’ this software takes screen shoots which then can be edited on paint. But the main limitation of paint is that it cannot capture images. | Between the two pieces of software image capture was not what they were designed for which means neither of the software can capture images. However, overall I would say Paint is better because it works with the Microsoft snipping tool. However, Photoshop does not work well with the ‘snipping tool’ this is due to compatibility etc.  | Photoshop CS6 Has the same problem as paint. This is that it is editing software, designed for editing/manipulating images. This means you again are not able to capture images in any way. There is no relevant software that capture images either like: Photoshop Image Capture. With paint, Microsoft have their own snipping tool which works well with paint. However Photoshop do not have any software that captures images and works with it nicely. (Compatibility etc.) |
| The main problem with image manipulation with paint is that it is extremely basic and not good for adding animation/effects. The program is only really good for developing early skills (Even as a child). The effects available are very basic. This means major businesses cannot use this software for editing because it does not include the professional effects they are looking for. Although the program is free, the effects available show that. Screen shots taken by the ‘snapping tool’ are good for editing in paint because they are only In need of cropping etc. (Not putting on effects) | Comparing the two software together, Photoshop CS6 is much better at editing images because of the verity of effects it supplies. However it is very complicated software to edit on and paint allows you to develop early editing skills. Photoshop also cost a large sum of money, paint is on the other hand free so paint is better for cost but the effects available compared to Photoshop are nothing. Photoshop on the other hand is also very technical for editing and many people do not know how to use it, paint is much more easy to use, and many people use it to develop skills. | Photoshop is mainly used by photographers and big major companies in editing. However the major disadvantage of Photoshop is its price. Photoshop CS6 ranges from £400-£700 Which is a massive sum of money for single photographers etc. to pay. This price is because of the huge verity of effects available for editing. The other major disadvantage of Photoshop is it is to advance for many people and they will not know how to use the software, they will have to develop their skills by watching tutorials etc. This is time consuming which can cost.  |
| The disadvantage of storage with paint is it will save the image automatically as a JPEG un-less you manually change it. This is bad because a JPEG file loses a lot of the original image quality and if you are half way through editing and you decide to save it then the original image etc. Will lose some quality. However because paint is fairly basic so the effects are not that effected from file type transformation. Also a JPEG is very small so a lot of photos/ images can be stored on a fairly small memory device. However if loads of photos are stored, they are hard to locate | Comparing the two I would say that Photoshop is better for editing when the file is saved because the file (PSD) has similar properties to a RAW it will not lose much of the original quality data and is large in file size. However a PSD file isn’t compatible with other programs which means unless the work is finished you will not be able to view it on paint for example. However paint saves it as a JPEG as default which is small and compatible with many other programs however, it loses some quality and can be much harder to edit a JPEG compared to the original RAW file.  | The main disadvantage of Photoshop is its default save. The default save for Photoshop is a PSD file the disadvantage of this, is it large file size. The file is also only compatible with Photoshop and cannot be opened without it. This means not only is the file size large but the file is only compatible with Photoshop. This means when you saved an unfinished logo for example it cannot be opened with CorelDraw and if you have many unfinished pieces of work the memory card will have to be much bigger which can cost a lot more money after buying Photoshop.  |

Software Limitations