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Welcome

Welcome to the first term edition of Mearns Castle Science and Technology magazine. We have a wide range of topics written and researched by our own enthusiastic team from all year groups.



COMPETITION

Last edition we ran a competition to design our very own logo! The winner was Hannah Ali who won a speaker and IPod dock. You can see her design on top of this and every future edition. Well done Hannah!

For this edition's competition please look to the back of the magazine!





Welcome

In this edition of MCHS Science and Technology magazine we have a wide range of articles from robotics to gaming. We have representatives from most year groups and aim to be as diverse as possible targeting anyone who is interested in technology. We welcome all new recruits and ideas, so come to Mr Phillips room D.13 at Friday lunch times to join the team. There are also competitions and interactive articles to get involved with.

Apple Watch by Calum Thom

The newest apple product is a watch but for some reason it is not called the Iwatch! On the apple watch you can text your friends. Ask Siri, you don't need to bring your expensive phone around with you and it will show up if there is a Facebook update. It comes in many colours to fit your liking. The classical Siri can work just like it did on your phone or better. It tells the time just like any watch would and you can set a timer for when you have to be back for a certain time or if you have to be back in for a certain time. So really it's just the same as an iPhone but without games





Deja Vu

Most scientists believe that the universe started with the big bang! We may not know if this is true, but it's the best fit for the evidence.

When the planets formed they started off as dust and rocks that collided together. Over an immense period of time they turned into the planets we know today. And yes, one day the planets will get eaten by the sun or swallowed by a black hole (Don't worry this isn't for billions of years) and the solar system will cease to exist. However some scientists believe that this has happened before and that it may have happened many times before that. This process may go on for ever! So we really have no idea how long space has been around for or how it got there. Yet another mystery scientists will continue to ponder.

Gaming Evo by Grant Patrick

Now that more and more phones and apps are coming out, all the retro games are starting to fade away. I mean when was the last time you played pacman or dig dug or space invaders or the original Mario. The classics are actually very good! I actually play retro games very often on my DS! But the new games aren't all that bad. Take call of duty, it has millions of players, and minecraft: a 3D block game. It is also what you call a sandbox game. This means you can virtually build anything you can think of.

And even though retro games are fading away, new versions of them are coming out, such as Super Mario 3D Land. It's barely the goomba stomping bowser bashing game it was back then. But it's still Mario. Right!





Destiny by Grant Patrick

Destiny is an online persistent world first-person shooter video game in a "mythic science fiction" open world setting. It was developed by Bungie and published by Activision. *Destiny* is set seven hundred years into the future in a post-apocalyptic setting following a prosperous period of exploration, peace, and technological advancement known as the Golden Age. In a universe where humans have spread out and colonized planets in the Solar System, an event known as "the Collapse" saw the mysterious dissolution of these colonies, the end of the Golden Age, and mankind teetering on the brink of extinction. The only known survivors of the Collapse are those living on Earth, who were saved by "The Traveler," a white, spherical celestial body whose appearance centuries before had enabled humans to reach the stars. The Traveler now hovers above the last safe city on Earth, and its presence allows the Guardians — the defenders of the City — the ability to wield an unknown power, only referred to as "The Light." *Destiny* will centre on the journey of the Guardians, the last defenders of humanity, set to protect Earth's last city. Guardians will be divided into three distinct races: Humans, Awoken, and Exo. Humans are described as being tough and uncomplicated.





Video games corner by Ramsi Hashim

So, as most as you know, there are things called THE NEXT GEN CONSOLES!!! This includes the PS4, The XBOX 1, The PS Vita, The 3DS and The Wii U. So far, old PS3 games and XBOX 360 are really only on the Next gens (But there are a few that are exclusive like Knack or Titanfall). I'm sure some people have heard of Super Smash Bros. Well, there is a new one coming out called Super Smash Bros 4 for the 3DS and Wii U. Someone hacked into the Wii U version (Because 3DS is already made) and posted a full roster of every character.

The covered up characters are Kirby, Bowser, Bowser Jr, Ganondorf and Pikachu.

Now for THE EMULATORS!!! There is this website called coolrom.com were you can download Game-Boy Advanced, N64, The NES just from a few taps! No need to jailbreak your Ios or android, just choose the un-jailbroken choice. (Unless you have then choose the jailbroken choice.)

You start off with no games but if you go back onto the website, click 'games,' choose what game you want (search from keywords or from A-Z) and click 'Download!' Easy as that! So, go and download it today!



iPhone 6

Recently, apple released the new iPhone, the iPhone 6. But why should you buy it? Sure, it may have a larger screen and a better resolution, but would you want to pay £789 for something not that much different than the previous models.

Pros

The iPhone 6 has an all new "Reachability" feature, solving problems with one handed usage.

A higher resolution screen so you can watch videos and play games at a higher quality level.

A new design that looks cooler and more modern.

Cons

Very expensive, meaning that not that many people will be able to buy it.

Apple pay feature not available till October.

Could be too big for small handed people.

Rear camera sticks out slightly.





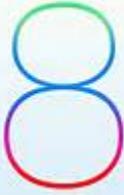
The Oculus Rift is a VR headset currently in development. It has 2 screens inside it—one for each eye. It also has an accelerometer (Turn sensor) to know when you are turning round. Many games have been made especially for the device but it is also compatible with a lot of FP games like HL-2 TF-2 Skyrim and many more. The headset is expected to be released to the public in 2015 and I think it would be a great advance in gaming.





IOS 8

iOS 8 is amazing... NOT! I mean look at these reactions!
Today in first world problems: The iOS 8 update requires a whopping near 5 GB on the iPhone — and who in the world has that much storage available?



Apple released the update Wednesday, sending customers in a fit of rage upon realizing they'd have to delete apps, photos and music — basically everything they have ever been and ever will be — to make room for the software upgrade.

If the sun was scaled down to the size of a white blood cell, the Milky way galaxy would be the size of the united states.

“Had to delete like everything to make space for iOS 8 if they asked for anymore storage id probably end up selling my soul.”

“If you have enough space to update to iOS 8 who are you

I literally deleted almost 3,000 pictures off my phone yesterday so I could get IOS8... but now it's saying I don't have storage oh!”

I had to delete my existence just to be able to download iOS 8. it's cool.

IOS 8 is forcing me to make some hard decisions right now.



Why Microsoft Bought Minecraft

Minecraft is massively popular. The £5 Pocket Edition is currently the second most popular paid app in the iTunes Store. Overall, Minecraft has clocked more than 50 million downloads in total, including the PC/Mac versions (15 million), Xbox (12 million), and Pocket (21 million).

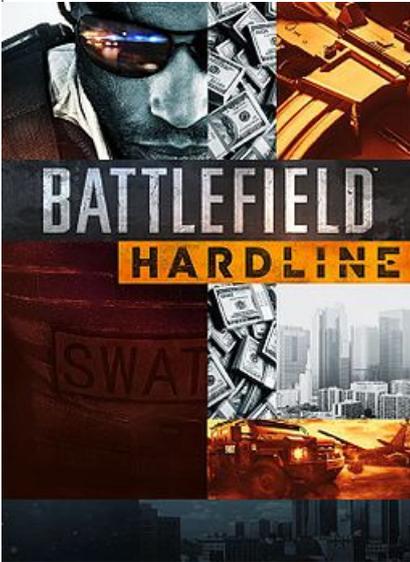
It has been sold for \$2.5 billion (£1.6 billion) to Microsoft. This deal was announced by Xbox chief Phil Spencer

A lot of gamers have concerns about this. Will Microsoft ruin this classic? Will it still be compatible on platforms like the PlayStation which is a product of Microsoft competitor? Mojang have assured fans that "everything will be OK" so time will tell if this deal was a good idea or not.

NASA wants to make interstellar travel possible within the next 100 years



Battlefield hardline



Battlefield Hardline features new variety of gameplay that breaks away from the traditional Battlefield game modes. The focus of the game has been shifted to police and the "war on crime", breaking away from the military setting that has hitherto characterized the series. As such, the main factions in Hardline are the police Special Response Units and Criminals. Players will have access to various military-grade weapons and vehicles, such as the UH-60 Blackhawk as well as having police equipment such as tasers and handcuffs.

Hardline also uses the Revolution mechanic from Battlefield 4. For example, in the map, "High Tension," players can send a construction crane crashing into the building, ripping down debris from the central buildings in downtown, which falls down

on the streets of Los Angeles.

The new game modes are Heist, Rescue, Hotwire Mode and Blood Money.

Heist: The criminals must break packages of money from armoured trucks by blowing the doors off, then moving the package to an extraction point; the police must stop them. If the Criminals manage to escape by bringing all the money to the extraction points they win.

Blood Money: Both factions must retrieve money from an open crate in the centre of the map, and then move it back to their respective side's armoured truck. Players can also steal money from the opposing team's truck. The team that first deposits \$5 million worth of money into their truck or the team with the most money under a time limit wins.

Hotwire Mode: Police chase down criminals at high speeds across expansive environments.

Rescue: Police officers must try to save hostages from the criminals.

Visceral Games stated that the single player campaign will not be entirely linear and they have promised to deliver a better one than the previous game .

You need to know how to use Microsoft Windows in order to get a job at Apple.



Apple Evolution

Apple Evolutions

Think of the word Apple. What do you think of? The fruit or the company?



It all started with Apple I. It was really just something you plug into your monitor and it saved things, really just an old fashioned USB.

The most recent Apple product is the iPhone 6.

Sooner or later the OS X Yosemite, which is really just an operating system (no, not for hospital), and the Apple watch*, it's an iPhone you wear around your wrist. (I'm surprised it can actually tell time!)

From the 2G to the 6 Plus! Apples gone a LOOONG way! 10 phones and counting! I've got the iPhone 5c. What have you got? Talk to Grant or Ramsi in SI.

Windows 10

Microsoft has disclosed the first details of Windows 10 - its next operating system (OS).

The name is a surprise; bearing in mind it represents a jump from the last version - Windows 8.

The software will run on a wide range of devices, from phones and tablets to PCs and Xbox games consoles, with applications sold from a single store. It also marks the return of the Start Menu, which had been removed from Windows 8.

Microsoft announced details of the new operating system at an event in San Francisco. In addition to offering a list of the user's favourite applications, the menu also brings up resizable tiles - similar to those featured in Windows 8's touch-centric interface on PCs and tablets.

These provide a quick view of notifications from relevant applications, such as details of new emails, Facebook messages and weather forecast updates.

The company said the facility was intended to make the software seem familiar to both users of Windows 8 and Windows 7.

Find out more on the next page

Google successfully tested an automated car that drove 300,000 miles with only one accident— A fender bender involving a human



Windows 10 con

The Start Menu now features both a list of apps and live tiles

'Critical' choice

Windows 8 had been criticised for being too different from the previous version, which deterred some organisations from introducing it.

Microsoft's chief executive, Satya Nadella, did not speak at the event, but had previously discussed a wish to "unify" Windows. It initially lacked a Start button altogether and when one was introduced, it only switched to the touch-centric tiled interface or - if a long mouse press was used - provided access to the system's control panel and other functions.

Businesses typically wait about a year after a new operating system's release before offering it to workers to give IT staff a chance to get to grips with the new technologies involved.

But it has been nearly two years since Windows 8 first went on sale and adoption is still low.

"It's extremely important for Microsoft to get Windows 10 right," said David Johnson, who watches Microsoft for the consultancy Forrester.

Introduction to the Raspberry Pi

The Raspberry Pi is a low cost, **credit-card sized computer** that plugs into a computer monitor or TV, and uses a standard keyboard and mouse. It teaches programming to young children and offers very advance projects. The Raspberry Pi mainly runs on Linux which is new to most people.

The Raspberry Pi requires: a SD with an operating system burned on it, a HDMI or RCA compatible monitor, an Ethernet cable or USB WI-FI dongle for internet access, a standard keyboard and mouse finally a source power from a USB plug and a micro USB.



There are three models of Raspberry Pi: A, B and B+



Model A



Model B



Model B+

The Raspberry Pi is a great minicomputer. There are hundreds of projects to do like programming a chat box or making a robot the possibility endless so I would seriously consider buying a Raspberry Pi if you enjoy computers.

Linux





The editorial team hope you enjoyed this issue and we hope you all have a wonderful holiday.



Competition

This edition's prize is a memory pen.

For the chance to win this all you have to do is answer this question:

How much did the company Microsoft pay for Mojang? (the company behind minecraft)

To be in with a chance of winning this prize write your name, year, house and answer onto a sheet a paper and drop it off at D13.



Want to join us?

We currently have representatives from S1 to S6 giving us a great array of articles targeting many different types of interests. If you any new ideas for this magazine or if you would like to join the team, come along to D13 (Mr Phillips room) at Friday lunchtimes to get started.