



UNIVERSITY
TECHNICAL COLLEGE BOLTON

WEEKLY NEWSLETTER

DATE 19/01/18

GCSE RESULTS

68.1% Maths and English
Grade 4+

6 students secured a
cumulative total of

47 A - A*(7-9) grades

100% A* - C in
Triple Science

A-LEVEL RESULTS

97% Pass Rate

98% of Applied Science
students secured 3 A* - B
equivalents

100% Pass Rate in
English, Maths, Computing,
Chemistry, Geography, Further
Maths & Applied Science

SIXTH FORM DESTINATIONS

38% students secured a
place at Red Brick & Russell
Group Universities.

60% of students are
studying a health care sector
related degree.

23% of students are studying
an engineering related degree.

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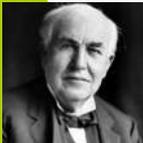
PRINCIPAL'S UPDATE

This week the National Audit Office released a report on science, technology, engineering and maths (STEM). There were some interesting statistics including a prediction by the Gatsby Foundation that the STEM industry will need 700,000 new STEM professionals to come through to meet employer demand by 2024.

The government have also invested £80million in high-speed rail, nuclear, onshore oil and gas and digital. This sets out the important role that UTC's have in supplying those industries with STEM professionals.

In the North West, we are going to have a hub for the HS2 at Manchester Airport and Cheshire creating a greater need for STEM professionals this together with the Northern Powerhouse will create many opportunities for our young people.

MR. LIAM MCDAID
PRINCIPAL



THIS WEEK IN HISTORY

On 19th January in 1883, Roselle, New Jersey, earned its place in tech history when the first electric lighting system employing overhead wires went into service.

The system was built by Thomas Edison as part of an experiment to prove that an entire community could be lit by electricity from a shared, central generating station.

A steam-driven generator sent the power through the wires strung overhead to a store, the town's railway depot, 40 or so houses and 150 streetlights. The First Presbyterian Church of Roselle made electrical and ecclesiastical history three months later when it installed a 30-bulb "electrolier" and became the world's first church to be lighted by electricity.

The electric chandelier still hangs in the church. In the centennial year of 1983, a bronze-and-granite marker was dedicated at the original site of Edison's generator at the corner of Locust Street and West First Avenue in Roselle.

Edison, one of the most prolific inventors of all time, was known as the "Wizard of Menlo Park." That predates, apparently, the age of visionaries, geniuses and gurus.





STUDENT FOCUS

Year 10 PBL - Engineering for Good

Last week the Year 10 students started their new PBL activities. This term Mr McDaid's class will be 'Engineering for Good' in this PBL the students have developed ideas around the notion of helping others.

Two of the groups in the class have decided that they would like to support the homeless and have designed two inventions. The first is a Self-Heating Pan. This has come from the idea that homeless people may need a pan to heat up a warm meal instead of having to wait for soup kitchens or goodwill. They have yet to decide whether they will be using exothermic or battery operated technology to achieve this.

The other group is creating a mobile app that will allow payments/donations to be made using a mobile phone to homeless people. Their idea came from learning that many people want to give a small donation to homeless people but spend most money using contactless methods and do not carry change in their pockets. The students are exploring how Near Frequency Communication (NFC) technology can help to solve this problem and are going to program the chips with their idea.

Another group in the class are supporting young people with mental health and eating disorders. They have developed an idea that will use a Raspberry Pi and an online interface to record calories to support young people and their parents/carers to get better.



THE WEEK AHEAD 19/01/18

Monday 22nd January

Exams - Chemistry Unit 2 Tier F/H GCSE/B

Wednesday 24th January

Exams - Physics Unit 1 Tier H GCSE/B