



Welcome everyone to our final edition for this school year. As you know at The Castle School we are keen to involve as many students, of all ages and abilities, in STEM opportunities in order that they can find ***Inspiration for the Future through STEM.*** The last few months have been no exception!!

The Industrial cadets project, with Airbus, saw our 'Eco-Knights' winning Best Overall Project across all the schools in Bristol. Well done girls!!



A focimeter, spectacles, spyglass and a microscope designed and built by our students – with thanks to our Premium Partners Essilor.



35 Year 9 students attended 'Your Green Future' at UWE, looking at careers in a sustainable future and taking part in workshops designing Cities of the Future. Students came up with solutions for dealing with waste and worked with STEM ambassadors from companies as diverse as Jaguar Land Rover and Ecotricity!



On Friday 20th May 12 Year 10 students headed to Redmaids school along with about 150 other

female students from across the South West to spend a day discovering more about what a career in STEM has to offer them in the future.

There were over 20 workshops for the students to choose from to get a flavour of what is possible through STEM!

June was bursting with STEM opportunities!

40 Year 7 students visited the Cheltenham Science Festival this month. At the mathematics show, students were introduced to the Torus and Mobius Strip! During a visit to the Space Dome the students ran a mission to Mars as well as finding out about black holes and galaxies!



National Women in Engineering Day 23/06 was celebrated by a group of Year 9 students who were invited to visit GKN Aerospace.



Thanks again to Premium Partners **Berkeley Vale Motors** for another fantastic tried, tested and raced Go-Kart!



In order to show students applications of Biology, Computing and Mathematics we were invited to The Integrative Epidemiology Unit. The students got to decode a human genome, look at environmental factors that affect health, think about the ethics of knowing everyone's DNA, learn about how understanding DNA can improve cancer treatments and see how conclusions are drawn from the data from large studies of patients.



On 28th June Rob Bennett from Bloodhound turned the tennis courts into a race track as students from Castle and Christ the King brought the cars they had been designing and building all month to try and win the Rocket Car Challenge.



Following the success of that event 20 pupils were invited for a tour of the actual BLOODHOUND car itself! They even got to

meet **Sir Richard Noble...** how inspiring was that!!



Even though we had the wettest June on record it didn't dampen our enthusiasm for STEM in July!



45 Year 9 students created wind turbines and raced cars in a Renewable Energy workshop delivered in school by **STEMWORKS**.

Invited as one of only 2 schools to be VIP guests of Airbus at Farnborough International Airshow look who our girls met..... **TIM PEAKE!!!**



As part of TECH Week we received an invitation to Hewlett Packard Enterprises which as gratefully accepted by

Year 10 Computing students!



Year 12 students also continued to have STEM experiences, with Chemistry students visiting AGAS and Physics students going to CERN!! Also this year we have more students going further and deeper with their STEM experiences with the Engineering Development Trust as part of the Inspire and Headstart programmes that take place over a week during the summer in either engineering firms or universities.



Science Busking is coming to Castle. On the 5th October 30 Year 8 students will get the opportunity to experience this first hand.... and perhaps have a go at some busking themselves!



Want to run a workshop or speak to our students? Got an idea/ event/ trip you want to run? For questions about the above or anything to do with STEM at all please contact: **rachel.beddoes@thecastleschool.org.uk**

Coming to The Castle School in November for all Year 7 and Year 8!! BAE Systems, the Royal Navy and the Royal Air Force have joined forces to launch a nationwide schools

engineering and science roadshow.



Next term, Look out for... **LEGO Robotics** **STEM colours**

Thanks to all **STAFF, STUDENTS, PARTNERS** and **PARENTS** for their continued support with **STEM!**