

Scarborough UTC News Flash

Friday, 13th October 2023

INTRODUCTION

Dear Parents and Carers,

Such a busy week! All of college attended the spa on Tuesday for the Engineering Week exhibition; so many students appreciated the chance to compete, to build, to learn and listen. There was huge variety, the stands continue to get bigger and better each year. This trip is so relevant to our students since all the local engineering firms are present but also members of the NHS too and this in particular showed the direct linking between Engineering and Health.

I was fortunate to be the opening speaker at the business dinner that is hosted as part of this event. In this I promoted and informed local business leaders about the F1 in schools opportunity and our success on a national and international stage. We were especially grateful to everyone there who very kindly chipped in towards sponsorship monies for us – they raised nearly £240.

Last night we hosted the Year 11 revision skills evening. About half the year group were represented, which if I'm honest is a little disappointing. This event launched the Trial Exam period – year 11 are only 2 school weeks away from this important time of year – and parents were able to get small group support in each of their child's subject areas, so that they are equipped to best support their offspring in the forthcoming exams. We will collate the handouts into one document and this will be available under the parent information tab on the website – but in reality, this only scrapes the surface of the face to face experience. I am very grateful to all those parents who did attend and for the positive feedback we received from you.

The half term is now two school weeks away, but we still have much to achieve and are looking forward to the Year 9 visit to Coventry University Campus, the visiting speaker and workshops for year 10 from a Dyson employee, work experience for Year 11 and Year 13 plus over very special Awards' night (Friday 20th 18:00 start prompt), compered by Mr Simon Bull from Castle Group. I look forward to celebrating with many of you next week.

Thank you for your continued support,

H Dowds

Principal

TECHNICAL EXCELLENCE

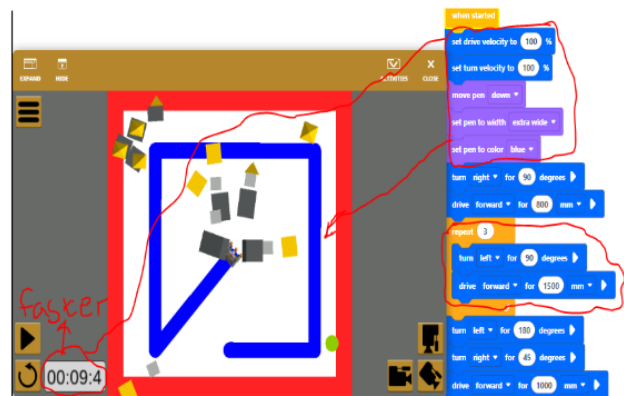
News from Programmable Systems this week - it is at this point that we are getting a true picture of what an awesome group of students we have at Scarborough UTC. Week on week, with several assessment points completed, we have a clear image of students demonstrating their commitment to Technical Excellence this may be in their positive attitude each lesson, that they are always equipped, that they fully participate, or that they may be being kind and a mentor in sharing what they have learnt. It is also that they are just a fantastic young person engaged with their learning in engineering! I have issued quite a lot of professional values points this week for people doing the right thing, trying their best, and having the right attitude, as well as for some very high test scores in relation to the homework preparation / flashcard homeworks that are being set across all programmable systems groups in Y10 and Y11.

Year 9 are at the stage where they are choosing their option pathways, and we are very much looking forward to seeing what the new timetable will look like after half term. With both their robotics, coding and slide presentations, students have had a really positive experience coding a virtual robot to smash some walls and navigate a maze, as well as learning about some basic quantities such as current, voltage and resistance.

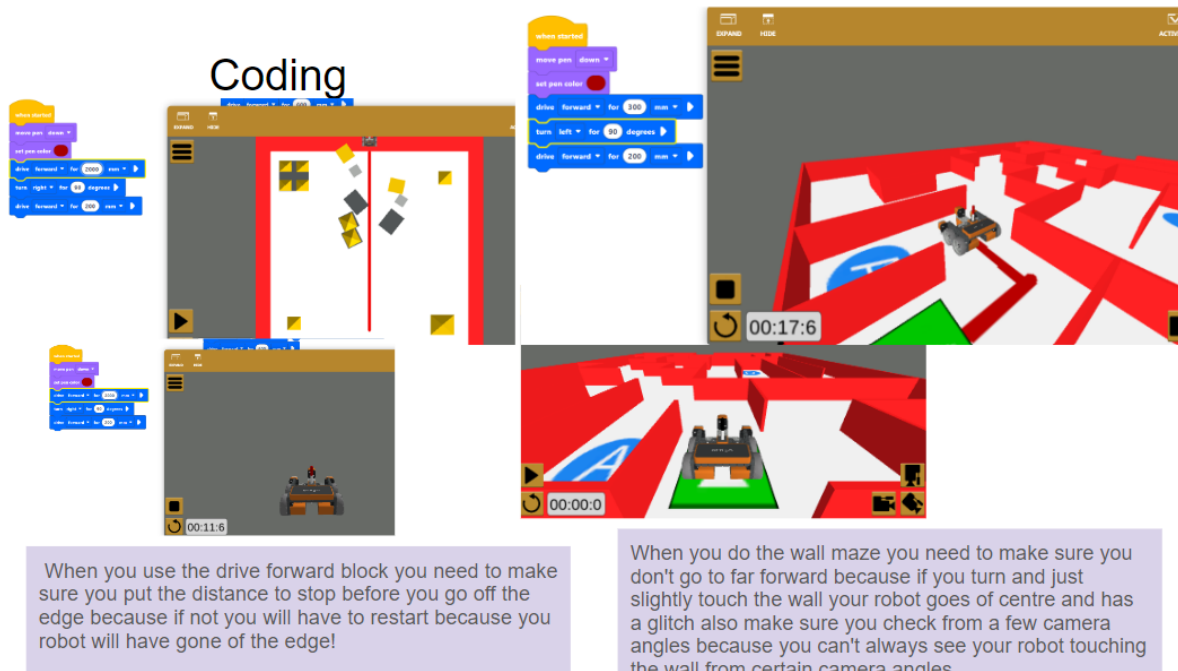
FIRST ATTEMPT: STRUGGLES AND PROGRESS



Although, I was successful in knocking down the castles, there were some struggles while coding like for example, I didn't write the exact rotation angles in some places or I made the robot to drive to far which resulted into the robot crashing but I got there in the end.



The Class also noticed that the robot was moving slowly and there were too many lines of codes written. Hence to fix that we needed set the drive and rotation velocity to 100% and also needed to use the repeat button which saved us some time. In addition, we learnt how to use the pen and I think it is useful because it is for drawing different shapes and lines. It is also useful for when we use the art canvas playground.



These are some robotics screenshots, thanks to IO and EA - great work!

Year 10 and 11 Systems students are working now on their programming coursework task - initially to look at how complex systems are represented in an easy to understand way, and having had chance to do some of their own research, now are creating their own responses to the block diagram task in lesson time. This is time sensitive, so please encourage attendance in lesson. We offer support for both coursework and homework if anyone has missed lesson time, or simply needs a little reminder.

Ahead of reporting, I've been in touch with a small number of parents in relation to supporting your child with completing their home study. It really is critical that your child spends time completing our "prep" tasks for programmable systems. It links with both coursework and our examination content. All students have a sheet on which they copy down the answers from the set of flashcards I have made for them - really easy! Then they do a short amount of self-study within the app. I give all students a quiz in our next lesson. What is really becoming clear is that those students regularly doing their prep tasks are consistently showing they are retaining more technical knowledge - the more you learn, the more you are then able to learn. If I've been in touch, it would be great to share how easy and accessible it is with you - so please do make contact!

With Year 12 and Y13 principles of electrical and electronic engineering, we have reached the end of our first module on Circuit Theory. Next week we have a test, based on how well we have learned the required information about current, voltage, resistance, and power in direct current (DC) circuits. All students have been given time to prepare, and their course materials

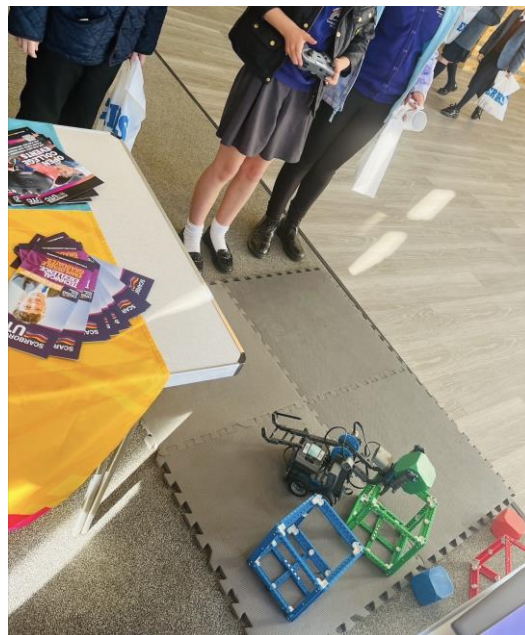
are all available for them to review on google classroom. Please encourage your child to prepare for next Friday's review! Have a great weekend, from Mr Brown

Mark Brown

Engineering Programmable Systems

TEACHING AND LEARNING@SUTC

We have had an exciting experience at the Spa this week, attending Scarborough Science and Engineering Week events. All SUTC students attended an afternoon on Tuesday with students from all over the county having the opportunity to find out more about Scarborough UTC at our stand in the education zone. On Wednesday evening our F1 in Schools team attended the evening dinner, aiming to gain further support for future competitions. Many thanks to Scarborough Business Ambassadors and NYBEP for organising such a great event.



WORK EXPERIENCE UPDATE

Our Year 11 and Year 13 students will soon be attending their work experience placements - WB 23/10/23. Students will be attending an assembly this week where final details will be clarified, and will be issued with a work experience diary/journal to complete daily and return to college after half term.

Our Year 10 and Year 12 students will be attending work experience WB 04/12/23 with many having done a great job in identifying and organising their own placements. Unfortunately, there are students that have not been successful; all parents of these students have been emailed a link this week to enable them to complete a brokered placement form with their child. Find an additional link below; please do complete this form by Monday 16/10/23 in order for your child to have the possibility of a brokered work experience placement.

<https://forms.gle/vxvFhoHjxvM4GbyV6>

PREPARATION FOR EXAMS

The preparation for Exams evening held this week was a great opportunity to understand the planning and organisation for the forthcoming Mock Examinations and the 2024 exam series. It was great to welcome parents and students for such a supportive successful evening.

Student's positives are identified and can be viewed on BROMCOM MCAS. The points identify the elements of our college ethos and that of being a "Young Professional ". We encourage students to review progress regularly. Each week reward vouchers are issued in assembly to recognise achievement and hard work.

ORGANISATON AND EQUIPMENT

It is essential for safeguarding purposes that Lanyards and identity cards are worn at all times. In addition to our business dress, this is a very important expectation. Students who forget such items have to sign into college manually and this adds to workload. It is our students responsibility to ensure they are prepared for each day.

Being prepared and study ready includes equipment. Carrying the correct equipment and the stationery for each day is essential – a reading book, a clear pencil case with a pencil, black and green pens, ruler, maths equipment and importantly, a scientific calculator and college water bottle.

SAFEGUARDING

We are committed to our students and families and we continue to provide support and points of contact.

Should you be concerned and feel that you need to share information please contact and refer information to the following email: dsl@su.coastandvale.academy

SUTC Designated Safeguarding Lead and Deputy Designated Safeguarding Lead monitor the email.

ATTENDANCE

It is very important to ensure that all medical and illness absences are reported daily by parents using our absence line or enquiries to Miss. Brown our Attendance and Data Manager.

Attendance will always be a continual reminder. Excellent attendance is above 96.5%. It is important that all students work hard to continually improve, this contributes significantly to maintain and improve overall progress and attainment. All students with 100% receive 10 professional points per week. Student above the 96.5 target receive 5 points per week.

Attendance monitoring and formal procedures are followed robustly. We work closely with North Yorkshire Council attendance team to address attendance concerns at the earliest stage.



AUTUMN REWARDS

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students to review progress regularly. Each week reward vouchers are issued in assembly to recognise achievement and hard work.

FUTURE OPPORTUNITY

Having the opportunity to travel and experience the chance to develop new skills in new environments changes lives.

With this in mind we will be launching our first Scarborough UTC ski trip for Spring 2025. The course will be open to all student's, and it will provide comprehensive ski tuition in an Alpine resort. Details will follow.

MONITOR, REPORT, ENCOURAGE

All students have been issued with emails and online accounts and all are reminded of the importance of maintaining security using college account usernames and passwords and to report concerns if they feel that accounts have been compromised.

Resources

[The Go-To - Emotional wellbeing and mental health \(thegoto.org.uk\)](http://thegoto.org.uk)

NHS – Scarlet Fever Scarlet fever: symptoms, diagnosis and treatment

Email: info@community-counselling.org.uk

Website: www.community-counselling.org.uk Telephone: 01653 690124

[Mobile phone safety | Childline](#)

[Physical activity and mental health | Mental Health Foundation](#)

[Kooth for Children & Young People - Kooth plc](#)

PHYSICAL EDEUCATION

Full PE kit is required for all. If a student is medically excused, please notify enquiries. Should a student be medically excused they are required to change in full, their lesson is then adjusted to include personal, professional and leadership development.

LOCKERS AND MOBILE DEVICES

Each student has been assigned a locker and this must be used to store all bags, equipment, and mobile devices. Students do require a padlock.

Use of padlocks provides essential security for valuable items including mobile devices, smart watches and ear buds etc. Storing mobile devices correctly in the locker prevents confiscation in line with our policy. On the first occasion the device is stored and returned at the end of the day. Each subsequent occasion, the device is collected by parents. To prevent inconvenience and control access to on-line apps, please ensure padlocks are available and devices are stored correctly.

Mobile device procedures protect students from on-line access and messaging throughout the day to ensure focus is on College work, social interaction and the break and lunch activities that provide opportunities for mental and physical well-being.

SCARBOROUGH UTC STUDENTS MARK THEIR DEBUT IN RITANGLE MATHS COMPETITION

For the first time, a dynamic team from Scarborough University Technical College (UTC) has embarked on the intellectually stimulating journey of the Ritangle maths competition.

Ritangle stands out as a contest that unravels a series of math challenges, where each solution provides a hint towards the culminating multi-part final question. The Scarborough UTC team, despite being novices in this competition, has risen to the occasion. They've adeptly solved the first two 'Stage 1' questions, with the second one being deciphered in just a few hours.

The Ritangle competition encourages a blend of traditional mathematical methods with the innovative application of modern technology, offering participants a multifaceted approach to problem-solving. The accomplishments of our Scarborough UTC team not only demonstrate their mathematical prowess but also their adaptability in tackling diverse challenges.

A Glimpse into Ritangle:

For those curious about the nature of questions posed in the competition, here's an example from one of the previous challenges:

Question 1

The equations below feature six three-digit numbers.

$$\begin{aligned} abc + def &= ghi \\ cba + fed &= ihg \end{aligned}$$

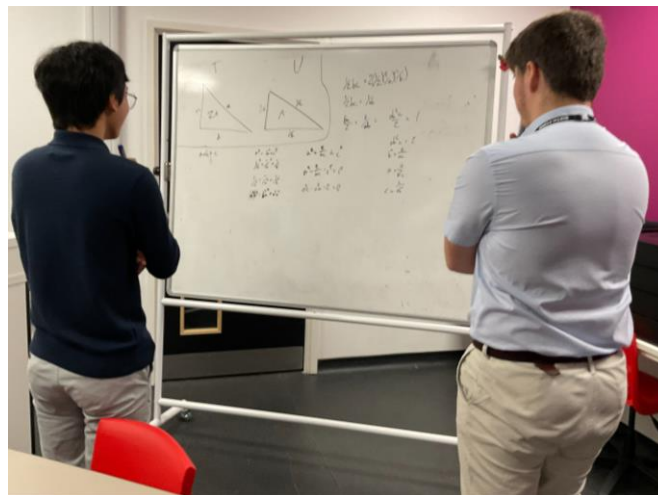
You are given that the digits a to i are 0, 1, 2, 3, 4, 5, 6 and 7 plus an extra 6.
No number starts with a 0.
What is $g \times h \times i$?

To get your final answer, multiply this by 447.2 and take the integer part

Please don't share your answers outside your team; others are having fun finding them!

It's fascinating to see how students break down such challenges, applying their knowledge, intuition, and collaborative teamwork.

The journey of our Scarborough UTC students in the competition, though just beginning, is already marked by dedication and significant achievements. Their stellar performance in Ritangle underscores their commitment to academic excellence. We look forward to more updates from this talented group as they navigate further challenges.



WIDER RECOGNITION

After several students achieving successful Arkwright scholar status in recent years, we are very pleased to be recognised officially as an affiliated Arkwright School.

An Arkwright Engineering Scholarship is the most esteemed scholarship of its type in the UK, designed to inspire students to pursue their dreams and change the world as an outstanding engineer of the future. The Scholarships are awarded to hard-working 16 year old students through a rigorous selection process, supporting them through their A level qualifications.

Every Scholarship is sponsored by a commercial company, trade association, university, professional institution, armed service or government organisation.

[Arkwright Scholarships - Arkwright Scholarships Trust](#)

ACADEMIC YEAR DATES	
Awards Night	Friday 20 th October 2023
Y11 and Y13 work experience week	Monday 23 rd October - Friday 27 th October
Autumn Half Term Holiday	Monday 30 th October 2023 – Friday 3 rd November 2023
Professional Development Training Day	Friday 1 st December 2023
Y10 and Y12 work experience week	Monday 4 th December - Friday 8 th December 2023
Christmas Holiday	Thursday 21 st December 2023 – Wednesday, 3 rd January 2024
First Day of Spring Term for Students	Thursday 4 th January 2024
Spring Half Term Holiday	Monday 12 th February – Friday 16 th February 2024
Easter Holiday	Monday 25 th March – Friday 5 th April 2024
Professional Development Training Day	Monday 8 th April 2024

First Day of Summer Term for Students	Tuesday 9 th April 2024
Bank Holiday	Monday 6 th May 2024
Summer Half Term Holiday	Monday 27 th May – Friday 31 st May 2024
Term Ends	Friday 19 th July 2024
Professional Development Training Day	Monday 22 nd July 2024