

Newsletter Half term 1 2018-2019

Recent achievements:

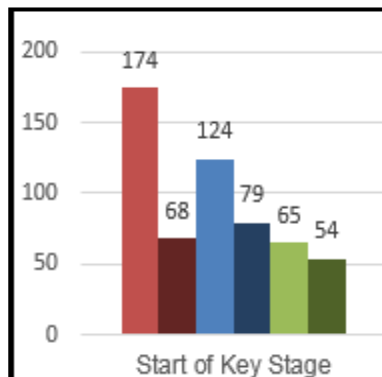
- 24th April - The initial school champions meeting was kindly hosted by Laura Lazenby and her colleagues at Lord Grey. Agreement was reached and partner schools committed to the ENTHUSE partnership.
- 25th June – Thank you to Gill Spittle, Dani Brockwell and all colleagues at Denbigh for hosting us for coffee and cake. Networking opportunities were embraced as 17 partnership colleagues discussed D&T and the hot topics of the day.
- 2nd July - St Paul's hosted a very successful launch event attended by 27 colleagues from partner schools and delivered by @TeacherToolkit AKA Ross Morrison McGill. Ross helped us to analyse the differences between male and female pupils before providing a range of tips and guidance that we can apply in our planning and teaching. All training was specifically planned to support within our D&T context.
- 18th and 19th July – St Paul's hosted the Airineers and Fusion 360 training for 11 partnership colleagues. Delegates learnt about Fusion 360 with a view to providing pupils access to this free and powerful piece of CAD software on day one. On day two delegates learnt how to apply their new skills in Fusion 360 to designing and 3D printing a small racing drone. Partnership schools will be recruiting pupils to take part in Airineers in 2018-2019, and St Paul's have been asked by Rapid to host a local competition.
- 13th September – School champions met to discuss how they would effect change in their own contexts and to begin individual school action plans.
- 13th September – St Paul's hosted coffee and cake. Discussions focussed mainly around last years exam results and progress on the new D&T NEA. Thank you to Richard Radford and the team at St Paul's for hosting.



Pictures from the launch conference and Airineers training.



Number of **target vs non-target** students who exceeded, met or were below the age-related attainment levels.



■ Target Below
 ■ Non-target Below
 ■ Target Met
■ Non-target Met
 ■ Target Exceeded
 ■ Non-target Exceeded

The attainment graph, above, shows the significant gender gap that exists currently in year 10. We hope to be able to diminish the difference of this through our CPD plan and the developments that departments and teachers undertake.

The Staff survey (carried out by all DT teachers within the 6 partnership schools) showed that colleagues were less confident with regards to STEM careers and felt they have fewer opportunities to collaborate with colleague cross STEM subjects.

Staff's perception of their own abilities with regards to T&L, supporting the needs of young people and ability to plan and provide and engineering rich curriculum were strong.

Upcoming opportunities:

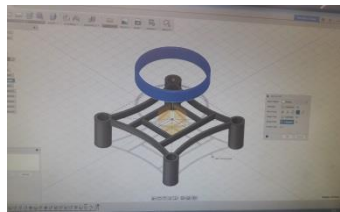
- Crumble training at St Paul's on the 12th November.
- CPD opportunities at the National STEM Training Centre in York: 2days – 23rd November Developing Knowledge and practical skills for GCSE D&T 2days- 28th November Developing Mathematics skills in the new D&T GCSE
- Facilitator Training- open to anyone who wishes to deliver a twilight session to members within the partnership. Three sessions of 4 hours available for those who wish to run a session.
- The offer is open to anyone within the partnership who wishes to take part in a 5 day Insight Training to a local industry. The STEM centre can help organise placement or you can arrange your own. There is a STEM bursary that will help your school cover the cost of cover whilst you are there, please contact Paul Tillman and Laura Lazenby with any interest.

Denbigh update:

We plan to hold a Drone Club in the Summer Term. This will be targeted at boys primarily but obviously girls are welcome.

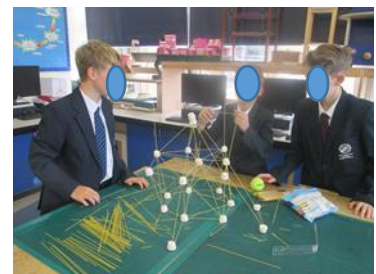
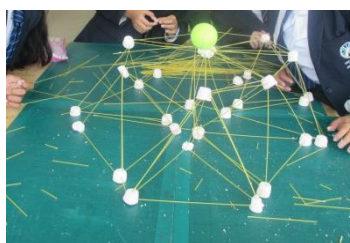
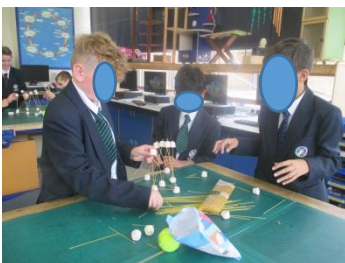
As a department we have started using various techniques from the Teacher Toolkit such as 'stickability' and retrieval practice with GCSE groups. This has starting to inform our planning for our exam preparation and will hopefully have an impact on results – so far so good.

On a side note - The networking has been great so far and has given us all points of contact with all the new changes to the specs etc.



Radcliffe update:

1. Review of Yr10 DT projects to deliver more STEM content within the lessons and active learning. Use of hands-on experimentation to meet learning style of boys especially.
2. Ks3 Projects also reviewed to include competition and increase STEM content to improve engagement.
3. Further Staff development with Fusion 360 ongoing to set Air Engineers Team in place.
4. Challenging social and cultural expectations of pupils, planning visitors and trips to broaden pupils' experiences and general knowledge.
5. Review of teaching groups to meet different learning styles, resources, needs and teaching expertise.
6. Three weeks of 'Light the Fire' lessons at the start of term for Ks3 to initiate of combined fun and learning within lessons (school initiative but definitely embraced by DT).



• Ousedale update:

We have currently been on the 'DT in Practical' and the 'Fusion 360 /Drone training' CPD sessions. There are plans for staff members to attend the 'Food Science' and the 'Maths in DT' in November at the STEM Learning Centre in York. All the information that the people have gained from the CPD sessions will be going into our Twilight training sessions within our school allowing us to disseminate to all. We have also put in place an enrichment session on Wednesday afternoons for drone building, which is available to KS4 pupils to increase their attainment and skills. We will have an internal comp before joining up with the partnership on race day.



Lord Grey update:

Kate Palmer (NQT last year) attended the York training centre for a 3day course. She found it to be invaluable and came back with some exciting ideas, that we hope to embed into our Schemes of Learning.

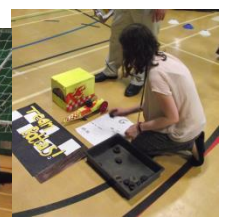
Tim Ray and Laura Lazenby attended the Fusion 360 training at St Pauls school in July, we plan to fly the drone at our Year 6 open evening in October. We are hoping to get Fusion 360 onto the school's net work very soon, so we can start using it in a planned new SOL for term2. We plan to run an extra curriculum club called 'The Droners' as soon as we have the software. We have also secured the half the funding for a new 3D printer to help us in the start of growing our resources.

Laura Lazenby has booked on to the 'Maths in DT' course in November.

We have also been making use of the free STEM resources on line, using them as 'ignite' lessons with Year 7s or working them in a way so that they could be used for cover lessons.

In July we also had a 'Creative Learning Day' where Creative Technologies teamed up with Business and Enterprise to deliver a whole day of activities to Year8. We designed, built and raced buggies. We also had a local STEM Ambassador in as a judge.

We have also booked in (with thanks to Jack Payne STEM Ambassador who attended the meeting at Denbigh) a BSI trip with Year 13 in October and Net Work rail coming in to work with our 74 Year 9 students for a day in November.



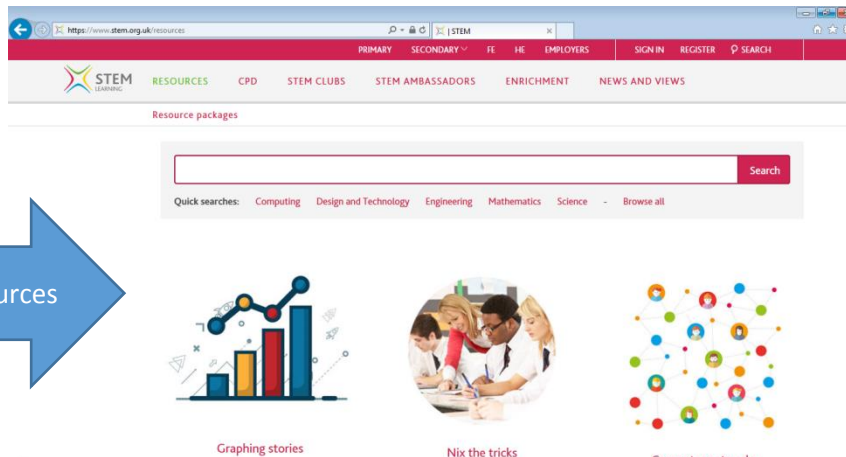
St Paul's update:

We have been looking at engaging parents with the Design and Technology Curriculum. We send a lot of communication home, but don't receive much communication back. We are planning to devise a department Newsletter to be sent out every half term via parent mail. We are also looking to run a parents information evening, where year 11 parents will be invited to a presentation on the NEA. This will also take part towards the end of the next academic year for Y10 parents as the new contexts are released.



Enthuse Challenge:

On the STEM website not only are there lots of bursary funded CPD sessions we can access but also lots of free Design and Technology resources. Your challenge is to select one, trial it in a lesson and feedback to others at the next Coffee and Cake meet.



Key dates:

- **Next Coffee and Cake meet @ Radcliffe 18th Oct 2018 4pm**
- **Next Champions meeting will be in November (date tbc)**
- **Coffee and Cake in November at LG Academy (date tbc)**



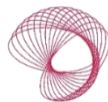
Lord Grey Academy



Milton Keynes Academy



**OUSEDALE
SCHOOL**



ENTHUSE
PARTNERSHIP

MK D&T ENTHUSE partnership



STEM
LEARNING



St Paul's
CATHOLIC SCHOOL



Denbigh School
Milton Keynes



THE RADCLIFFE SCHOOL
INSPIRE AND ACHIEVE