open LEARNING PARTNERSHIP


# IMPACT REPORT

## 2022 - 2023

Prince William School · Thomas Deacon Academy · Kettering Buccleuch Academy · The best in everyone · Oundle School · Oundle C.E. Primary School · Laxton Junior School, Oundle

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# INTRODUCTION AND FOREWORD

01

The OPEN Learning Partnership is a great example of how local schools from a variety of contexts have come together to provide opportunities for students that an individual school would not be able to provide for them on its own. It is very much an idea of "the whole is greater than the sum of its parts".

In addition to the opportunities that the Partnership provides to a wide range of students a key strength of this organization is the fact that all school are equal within the Partnership, all contribute expertise and resources according to their strengths and so schools do not lose their own identity whilst collaborating effectively.

**MR. KIM HOMARD-ROY, DEPUTY HEAD, PRINCE WILLIAM SCHOOL**

## REGULAR OPEN LEARNING PARTNERSHIP EVENTS:

- FAMILY SCIENCE EVENTS
- SCIENCE RESIDENTIAL
- OPEN MATHS (OMEC)
- THE OPEN STEM FESTIVAL
- STEM POTENTIAL PROGRAMME
- EXPERTED ONLINE TALKS
- DEBATING DEVELOPMENT
- GREENPOWER ENGINEER PROJECT

Our partnership work is driven by the genuine desire to share, collaborate and learn from and with the people in our partner schools. For Oundelians, the opportunity to mix with, and be challenged by, capable young people from different schools and backgrounds, is hugely beneficial to their understanding of the world around them and their place within it."

**GORDON MONTGOMERY, DEPUTY HEAD PARTNERSHIPS AND OUTREACH, OUNDLE SCHOOL**

# FAMILY SCIENCE EVENTS

02

## BACKGROUND

An afternoon of hands-on science in the laboratories at SciTec, Oundle School. Parents and children work together on different scientific activities. The aim is to promote an interest in science with pupils and their parents and provide opportunities to discuss science at home. The OPEN Learning Partnership host a science event that brings together children and families across our local region.

**Delivered by Teachers from: Kettering Buccleuch Academy, Oundle School, Kings Cliffe Primary, Warmington Primary.**

## FEEDBACK

"The teachers were very engaging. The hands-on experiments made learning fun and it's something they would definitely want to do again if they got the opportunity to do so."

"My sons have been telling their friends about the event and my youngest son has been quoting things that the teachers told him on Saturday."

"From speaking to one of our pupils, he was most excited to share about seeing the chameleon and bearded dragon (one named Picasso)."

"A participating family were all so animated about the event, including Mum. She said how well organised it was, the activities were excellent, the food was amazing, how much they all enjoyed the event as a family and enjoyed meeting other families."

**309**

**PARENTS AND CHILDREN**

ROCKET CAR ENGINEERING

# BLOODHOUND

03

## BACKGROUND

Bloodhound LSR is an iconic programme which not only aims to break the World Land Speed Record, reaching speeds beyond 800mph, but also to showcase world class science and engineering. By sharing every facet of this unique form of motorsport, we are able to inspire children and adults alike, demonstrating what is possible if you push physics and human endeavour to the absolute limits.

**Delivered by Teachers from: Oundle School, Kettering Buccleuch Academy.**

### SPOTLIGHT STORY

"We had a brilliant day with 'The Bloodhound Project' when they came to do workshops with everyone in Form 2. First, we were split into groups of 4, where we were mixed with some other children from other primary schools. We had to do a sketch for the car where we had to think about what shape it should be and the aerodynamics which would make your car the fastest. Then they handed out the polystyrene blocks so we could cut out our cars. We had to do the drawing on the blocks of the car. We drew so we could get the shape of the car and one of us cut it with the wire cutters. The wire was very hot, so it cut the polystyrene like butter! Then you sandpapered it to make it smooth and put the wheels on.

We were taken outside and saw a big track where the cars were going to trial and find out which is the fastest. They put the vehicles onto the line and put the rockets into them. When we pressed the red dot, the cars went WHOOSH! It was so loud, and the fastest car went 39mph! After all that fun we said goodbye to the other schools and some of us got to keep the cars as a memory of the day. We went to bed with a wonderful feeling in our heads."

**12**
SCHOOLS TAKE PART

**793**
PUPILS ARE INCLUDED

# OMEC
## (OPEN MATHEMATICS ENRICHMENT CONFERENCE)

04

**33** SCHOOLS

**251** PUPILS


## BACKGROUND

The OPEN Mathematics Enrichment Conference (OMEC) event takes place three times across the academic year and is aimed at the most capable mathematicians in Years 5&6, 7&8 and 9&10. It is open to schools in the Oundle, Peterborough & East Northants area and it seeks to extend the mathematical experience of all participants.

Alongside the pupil seminars, the visiting teachers meet for Continuing Professional Development (CPD) training sessions presented by contributors from the OPEN schools.

Pupils participate in three seminars in mixed teams made of pupils from different schools. They cover topics across the curriculum and all the topics are built on the knowledge that pupils have gained from their school experience but also extend their use into more challenging contexts. The afternoon session is a Mathematical Treasure Hunt contested between the teams and enjoyed by many teachers too.

**Delivered by Teachers from: Prince William School, Kettering Buccleuch Academy, Oundle School, Thomas Deacon Academy, Laxton Junior School.**

*"The staff were extremely welcoming, helpful and inspiring for the children. Being able to interact with children from other schools was very beneficial. The idea of putting them into teams facilitated some good conversations."*

*"I loved the board game because now I know my probability of dice landing on a number."*

# MUSIC PARTNERSHIPS

05

## BACKGROUND

**410**

**PUPILS**

ROYAL COLLEGE OF MUSIC London

Through a formal partnership with the Royal College of Music a series of Masterclasses for talented musicians in the region and music workshops in classrooms are provided through the OPEN LP. In March 2023 an Oundle School concert at the RCM also included performers from other local schools. The partnership also held Singing and Brass Days for primary schools during the year as well as RCM Fellow led workshops at Kettering Buccleuch Acadamy, Oundle Primary School and Prince William School.

**Delivered by Teachers from: Oundle School, Laxton Junior School, Oundle CE Primary, Royal College of Music.**

*Lizzie really enjoyed the entire experience and has appreciated the opportunity. We thoroughly enjoyed the concerts and loved to hear Lizzie playing with other musicians equal to and above her ability, it was wonderful."*

*Thank you so much for inviting Theo along to perform at the concert yesterday. We were so impressed with all the students - a spectacular evening!"*

*my daughter had greatly enjoyed the two days particularly as she had previously only ever played with 4 others so playing with such a large number of musicians was an amazing experience for her."*

# STEM ROADSHOWS

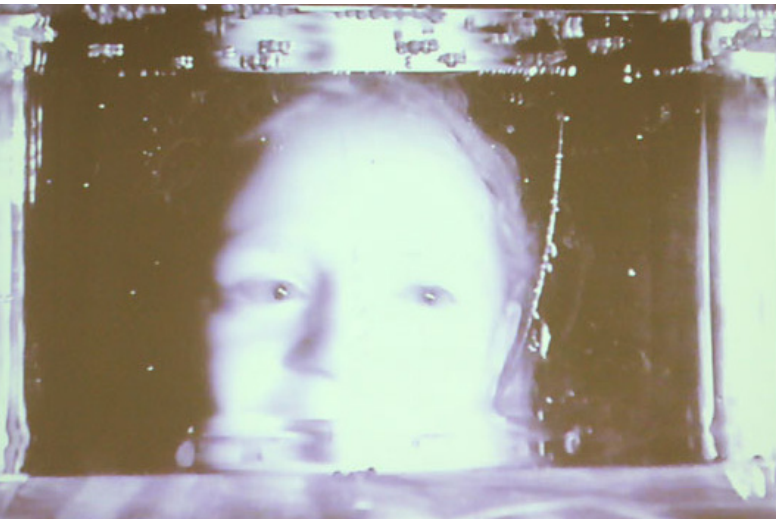
06

## BACKGROUND

The OPEN schools host a series of Science and Maths stage shows to inspire in children an awe and wonder about the world of STEM. These events travel as far as Edinburgh, Derbyshire and Sussex supporting cross-sector partnerships in several regions and are offered free of charge to participating schools.

**4184**
PUPILS

**42**
SCHOOLS



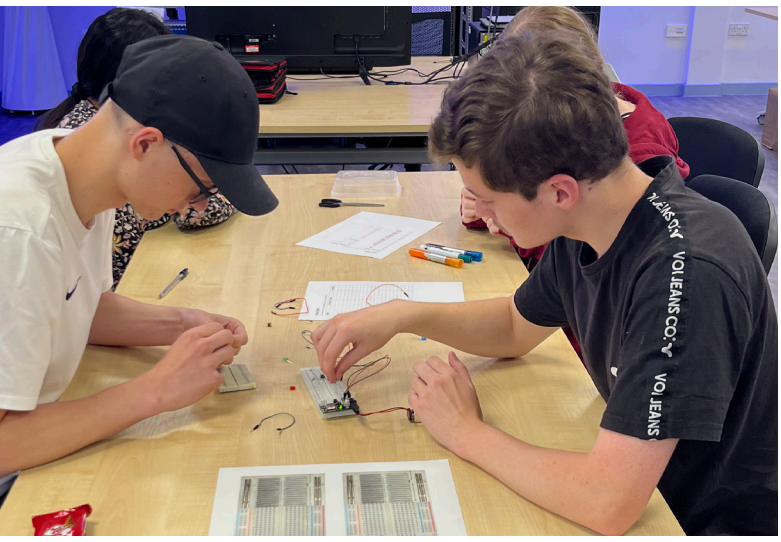


*What a great afternoon for our year 5 and 6 pupils yesterday. All the children ended the workshop completely enthused to keep learning and keen to learn more about math tricks to wow their friends and families.*

*The experiments related to real life to show the force of gravity in space, and how infrared light is used to look through cosmic clouds of gas and dust to the objects behind and within them. It is the only way to view many cosmic objects.*


The Fire Triangle
HEAT
FUEL


BOLT



## STEM SUCCESS

“My name is Ben, I first started the STEM potential course back when I was in year 9. Today, I find myself immersed in the fascinating world of Materials Engineering at the University of Sheffield.

In Year 9, like most I was uncertain about what it was I wanted to do in the future both at A-levels and then after that. The STEM program led way to developing knowledge that extended beyond the boundaries of the regular school curriculum. It was here that I discovered my passion for learning about new and exciting concepts in the fields of science, technology, engineering, and mathematics; developing a re al passion for Science especially.

One of the most memorable moments was when the Bloodhound team visited. Their presentation and the project involving building a rocket powered car not only captivated my imagination but also ignited a spark of interest in engineering. The STEM potential course also proved vital in university applications and general revision for exams, both of which are crucial for getting into university.

Fast forward and today, my university days are typically filled with lectures delivered by industry-leading professors who guide us through the latest developments in materials science.

As I continue to explore the world of Materials Engineering, the STEM potential course, has helped lead me to a place where I can engage with the limitless possibilities engineering, and I look forward to what lies ahead in this ever-evolving field.”

**BEN, STEM POTENTIAL PROGRAMME**

# STEM POTENTIAL PROGRAMME

07

## BACKGROUND

STEM Potential is a 4-year programme aimed at supporting pupils in in Years 10 – Years 13 through to applications for STEM degrees at leading UK universities. Pupils attend workshops on Saturdays 5 times per year and have a 1-week summer school in Years 10 & 12 which includes industry experience and a university taster day at Imperial College London. The programme helps pupils discover the wide range of subjects within STEM studies and aid progression to university.

Last year 2 participants received offers from Imperial College London, 2 from Cambridge University and many others for courses in Medicine, Dentistry, Engineering and other competitive degree courses.

**Delivered by Teachers from: Oundle School, Thomas Deacon Academy & University Partners.**

**100**

**PUPILS**

BEN DURING THE STEM POTENTIAL PROGRAMME

BEN AT UNIVERSITY STUDYING ENGINEERING

# FUTURE PLANS

08

**OPEN LEARNING PARTNERSHIP PROGRAMMES AND EVENTS PROVIDED OVER 12,000 OPPORTUNITIES IN TOTAL IN THE LAST ACADEMIC YEAR.**



## PLANETARIUM

The OPEN LP has taken a Planetarium on long term loan from our university partners to provide opportunities for children across our region to explore space and astronomy.



## STEM 10,000 PROJECT

A plan to commit to providing 10,000 opportunities in STEM subjects to local children this year and every year for the next 10 years as part of a national initiative with selected cross-sector partnerships.



## GIRLS IN ENGINEERING

The OPEN LP is seeking partners to support with the delivery and financing of educational opportunities using the sector-leading facility at Oundle School to create a National Centre for Girls in Engineering, addressing our nation's need for expertise in engineering and for more women to enter this vital section of the workforce.



## FAMILY SCIENCE PROGRAMME DEVELOPMENT

Expanding these programmes to provide Science Capital through providing events focused on disadvantaged children and their families, and hosting events in Kettering and Peterborough.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PARTNERSHIP