

Swindon and Wiltshire Careers Hub Hub Incubation Project

Embedding employer enriched careers
activities into the Year 7 Maths curriculum

Project Update: December 2021

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Aims of the Project:

1. To encourage more young people (particularly girls) to consider further study and careers with Maths.
2. To help schools provide high-quality, relevant careers awareness that is directly linked to the Maths curriculum.
3. To create a template for employer enriched careers activities that could be rolled out to other year groups/schools/subjects.
4. To generate evidence for schools and employers that this approach works.

Outline Plan for delivery:

| | |
|-----------------------|--|
| Term 1 (Sep-Oct 2021) | Recruit Schools and Employers |
| Term 2 (Nov-Dec 2021) | Formalise agreements: Meeting with Maths teachers and employers, MOUs signed. Research plans in place: Data sharing agreements, etc. |
| Term 3 (Jan-Feb 2022) | Teachers and employers working together to plan classroom activities. Pre-project survey data collected for all participating students and control groups. CPD sessions for teachers + Parent/carer webinar. |
| Term 4 (Feb-Apr 2022) | First classroom activities begin. |
| Term 5 (Apr-May 2022) | Bulk of classroom activities happening. |
| Term 6 (Jun-Jul 2022) | Final classroom activities and employer site visits. Post-project survey data collected for all participating students and control groups. |
| Summer Break | Writing up research findings, developing templates and roll-out plans. |
| September 2022 | Presenting research findings, promoting templates to other employers and schools. |

Offer to schools:

- 3x CPD sessions delivered by Forum Talent Potential – learning how to develop a practical activity linking curriculum learning to career opportunities with local employers.
- A facilitated partnership with a local employer to co-create an employer-led project to run over a full topic (6 weeks):
 - Employer intro and meet the team – understand how this maths topic is relevant to their work.
 - Setting a challenge and reviewing students' work.
 - Employer-hosted site visit (covid dependent).
- Additional classroom activities from other employers and STEM Ambassadors.
- Further CPD on local LMI: Learning from other employers involved in the project.
- Parent/carer webinar: Helping them to support their child's maths aspirations.
- £1,000 bursary + up to £1,500 for coach travel to employer site visit.
- 1:1 support throughout from HIP Project Lead.

Matching schools with employers

| Key |
|-----------------|
| On track |
| Behind schedule |

| Schools | Maths Topics | Employers |
|----------------------------------|--|-------------------------|
| Lydiard Park Academy, Swindon | Fractions, ratios and percentages | QinetiQ |
| St Laurence, Bradford-on-Avon | Geometry: measures, plans and elevations | Great Western NHS Trust |
| Nova Hreod Academy, Swindon | Geometry: symmetry and reflection | Blueflame Digital |
| Sheldon School, Chippenham | Directed numbers (e.g. temp, currency) | Wiltshire Council |
| John of Gaunt School, Trowbridge | Algebra | Babcock |
| The Corsham School, Corsham | Statistics: mean, mode and median | Apetito |
| Swindon Academy, Swindon | <u>Geometry</u> : angles and shapes | Cereal Partners UK |
| Wellington Academy, Ludgershall | | Esdon Architecture |

Evaluation Plans (TBC)

- Pre- and post-project questionnaire
 - Maths Anxiety Scale
 - Future Skills Questionnaire
- Control group (ideally same teacher)
- Students, teachers and parents surveyed
- Long-term tracking will fall to schools (i.e. impact on girls' GCSE results and post-16 choices)