

Role Profile: Science & Technology Teacher (STEM)

Purpose

To take the lead on the creative development of the Technology and Engineering elements of the STEM curriculum across the school, developing the Technology/Engineering/Design elements and supporting the delivery of the Science curriculum.

To contribute to the raising standards of student achievement at Undershaw through the teaching of these specialist areas from KS2 – KS4 including the delivery of qualifications.

To support and collaborate with colleagues in developing the use and potential of Technology in the school, and advising SLT on the development of resourcing and opportunities related to this area of specialism.

To research and report on the optimisation and potential for the use of STEM, and in particular Technology and Engineering, for those with SEND, including participating in research projects at school, local or national level.

To ensure that the highest standards of health and safety are embedded and upheld in these subject areas.

Delivering relevant CPD and cross-curricular planning and workshops with colleagues and quality assuring cross-curricular delivery and projects including the school's online/blended learning offer.

Key Accountabilities

- Model and deliver outstanding practice in a subject area(s) using a variety of delivery methods which excite, enthuse and challenge students as appropriate to ensure the aims and objectives of the curriculum are met;
- To participate in all aspects of monitoring student progress and attainment, including the provision of written records in line with policies and procedures;
- To work with appropriate personnel to identify and implement achievable solutions where students are not perceived to be achieving their full potential;
- To add to the development of the curriculum in STEM including the creation of resources, schemes of work and teaching strategies
- To support the provision of pastoral care across the school, with particular emphasis on any designated specific groups of students
- To use assessment information, both externally and internally produced, to assess student performance and to develop appropriate courses of action; amending teaching as a result
- To maintain a level of personal development to ensure that subject knowledge and teaching methods continue to be enhanced.
- To work as a member of a team, positively contributing to effective working relations and deployment of staff within the school

Safeguarding Responsibilities

- To comply with safeguarding policies, procedures and code of conduct
- To demonstrate a personal commitment to safeguarding and student/colleague wellbeing
- To ensure that any safeguarding concerns or incidents are reported appropriately in line with policy
- To engage in safeguarding training when required

Person Specification

	Essential	Desirable
Qualifications	Degree	QTS Evidence of further study in subject or pedagogy.
Skills	<p>Evidence of excellent safeguarding and Health and Safety practice.</p> <p>Evidence of ability to teach outstanding lessons in a STEM subject area.</p> <p>Evidence of ability to form productive and professional relationships with a range of children, colleagues and build strong working relationships with parents.</p> <p>Evidence of excellent professional standards and communication skills internally and externally.</p>	<p>Evidence of well-developed understanding of SEND/successful experience of teaching pupils with SEND.</p> <p>Evidence of ability to research and develop areas of specialism within education to share as the school becomes a Centre of Excellence and Influence.</p> <p>Evidence of ability to work flexibly and collaboratively with colleagues including across subject areas.</p> <p>Evidence of ability to contribute to the development and delivery of a programme of subject related events.</p>
Experience	<p>Evidence of well-developed understanding of secondary pedagogy and areas of STEM subject specialism with KS3 and KS4 STEM teaching experience.</p> <p>Evidence of playing a key role in the development and implementation of a new curriculum (STEM) and of cross-curricular planning and collaboration.</p> <p>Evidence of ability to enable pupils to gain excellent outcomes in a STEM area of subject specialism including examination results at GCSE.</p> <p>Evidence of being a Form Tutor.</p>	<p>Evidence of the ability to define, resource and develop the delivery of the subject specialist areas.</p> <p>Evidence of experience of implementing innovative and impactful initiatives in an educational setting, monitoring their impact and making adjustments as needed.</p> <p>Evidence of embedding and promoting best and reflective practice in teaching and learning.</p>
Other	Evidence of excellent technical, digital and administrative skills to resource, support and enhance the delivery of the STEM curriculum and development of the specialist subject area.	Evidence of skills which will contribute to the wider life of the school and of the ability to oversee the provision of high-quality educational workshops, trips and visits etc. to enhance the delivery of the subject area.

Key Stakeholders:

Internal - Pupils / All other school staff

External – Parents and carers / Education establishments / Suppliers

Signed: **Name (print):**

Date: