



Twyford Church Of England Academies Trust

"I have come that you might have life
and have it to the full" John 10 v10



Job Description

Job Title:	TWY KS5 Science Curriculum Devt. & Delivery Lead
Grade:	Main Professional Grade
	TLR 1a (6 periods per fortnight)
Line Manager:	Head of Science
Supervisory Responsibility:	NA

Main purpose of Post

To support progression and engagement in science with focus on top end students

- Ensuring curriculum delivery using the CaLM principles, supports the most able students at KS5 to achieve grades which ensure they progress onto the relevant pathways.
 - Supporting progression for potential applications for medicine, veterinary medicine, dentistry and related courses and those seeking to pursue futures in engineering
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Outcomes

Quality of Education

Curriculum & Assessment

- KS5 delivery achieves appropriate levels of top-end stretch by making maximum use of CaLM framework and coaching principles
 - Programme of wider learning enrichment activities designed and delivered for KS 5 students to ensure top end stretch (including Medsoc and Eng Soc at KS 5)
 - Copia pages maintained with Extension programme overviews, wider learning opportunities, further links and wider reading
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Behaviour and Attitudes

Pastoral

- Top Science students identified from Year 12, progress monitored and targeted extension programmes agreed

Wider Learning

- Trust TAP coordinator supported to ensure all Science Early entry & Medical/Dentistry applicants are well prepared for admissions tests
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Leadership and Management

Resources and Staffing

- Staff delivering at KS5 are appropriately trained in and make effective use of effective pedagogy to achieve maximum impact with the most able
- Promotion of and recruitment to all Science stretch programmes well led and managed
- UCAS process (including organising and running mock interviews) for relevant cohorts clear

Specific Responsibilities and Tasks

Quality of Education

Curriculum & Assessment

KS5 delivery achieves appropriate levels of top-end stretch by making maximum use of CaLM framework and coaching principles

- Review and refine guidance / training for staff on effective KS5 delivery
- Support Subject leads in the routine review of unit planners and lesson resources
- Prep practice and pedagogy reviewed to ensure delivery challenges students to achieve A/A* grades
- Ensure wider learning programmes align with / support curriculum delivery including oversight of the development of the long-term vision for Science Top end stretch Programmes (curricular and extra-curricular)
- Liaise with Science subject leads/HoD & Trust lead to ensure KS5 Assessment practices are well focussed and well used by staff.
- Liaise with 16-19 Administrator to oversee maintenance of destination database for all Science stretch pathways
- Number of students progressing on to appropriate post-18 pathways monitored
- Where required, deliver training to KS5 teachers in making links between curricula and CIAG

Programme of wider learning enrichment activities created for KS 5 students to ensure top end stretch (including Medsoc and Eng Soc)

- Coordinate Gold CREST awards in conjunction with Imperial college & school-based researcher programme
- Coordinate a timetable of Wider Learning Science opportunities for Year 12/13
 - Set up and support external competitions / tests (e.g. Science Olympiads, Chemistry challenge, competitions etc.)
 - Ensure KS 5 outreach activities from London universities /institutes (e.g. Nuffield Science Research placements) are communicated to staff, students & parents
 - Provide items for all three sciences for each Wider Reading Newsletter
 - Make links with and organise external speakers to run small group sessions for Medsoc &Engineering Society Programmes
 - Organise and lead relevant trips and visits to take place at least half-termly & develop links with industry to support students in gaining relevant work experience
 - Source and organise participation in Medsoc &Engineering Society Programme competitions run by national organisations and /or universities
 - Design and deliver 'applying for post-18 Engineering workshops & Med/Vet/Dent workshops
 - Ensure outreach is continued with current links e.g. the UCL Robotics Programme
 - Analyse relevant data to evaluate success of Science Programmes
- Support students in science leadership roles by ensuring KS5 Science students are identified & trained as coaches for KS3 Science; Science club; and CREST bronze clubs

Copia pages maintained with Extension programme overviews, wider learning opportunities, further links and wider reading

- Ensure high quality resources regarding the Stretch programmes are available to students on Copia, including programme overview, wider learning opportunities, further links and wider reading
- Share information on lectures /extension opportunities including those within the TAP programme
- Work with Oxbridge Programme Coordinator to set up a 'prepare for Oxbridge interview questions' on COPIA to support students applying to top universities to study Sciences (including use of past questions from previous Oxbridge applicants)

Behaviour and Attitudes

Pastoral

Top Science students identified from year 12, progress monitored and targeted extension programmes agreed

- Agree selection criteria for all Science stretch programmes
- Identify cohorts at the start of each academic year

Wider Learning

Trust TAP coordinator supported to ensure all Science Early entry & Medical/Dentistry applicants are well prepared for admissions tests

- Medicine in Action is promoted with KS4/5 students.
- Synthesise an additional scheme of work teaching the knowledge and skills required for the UCAT exam
- Mock UCAT exams are organised and students receive feedback
- Co-ordinate mock MMI style interviews, group interviews and panel interviews with Year 13 students in preparation for upcoming university interviews.
- Coordinate work experience with Imperial College and support students in work experience applications
- Run interview preparation sessions for Y13
- Supporting with checking and sending UCAS applications.

Leadership and Management

Resources and Staffing

Staff delivering at KS5 are appropriately trained in and make effective use of effective pedagogy to achieve maximum impact with the most able

- Liaise with the Asst Head Coaching /Training & Head of 6th form over core approaches to post-16 pedagogy.
- Run training sessions as part of the Friday training prog
- Lead within the coaching programme, focussing on KS5
- Ensure KS5 staff team make maximum use of unit planners, Afl and lesson Prep to maximise outcomes.
- Liaise with subject leads on the analysis of top-end science students at KS5

Promotion of and recruitment to all Science stretch programmes well led and managed

- Promote the KS 5 stretch programmes at sixth form open evening and ensure prospectus information is up to date
- Promote the KS 5 stretch programme to internal students e.g. through Y10/11 assemblies, science wider learning
- Support SLT to promote the Science stretch Programme in 1:1 meetings for internal and external applicants to the sixth form
- Students identified as part of Year 12 induction who are interested in a pathway related to the purpose of MedSoc
- Oversee the application and selection process for students onto each of the programmes annually
- Communicate with pastoral leads so tutors are confident with advice in CIAG meetings regarding medicine, veterinary medicine, dentistry i.e. chemistry is required at A-Level for medical courses.

UCAS process (including organising and running mock interviews) for relevant cohorts clear

- Support stretch cohort with UCAS application process i.e. evaluating courses and providers, writing personal statements, interview preparation
- Organise and run mock interviews for stretch cohort