



Job description: Science teacher (KS3-KS4) and KS5 Physics

Job details

Salary: M1-UPS3 (Inner London)

Hours: 32.5 hours per week

Contract type: Full-time (Term-time only), fixed-term

Reporting to: Head of department

Main purpose

The classroom teacher will:

- Fulfill the professional responsibilities of a teacher, as set out in the [School Teachers' Pay and Conditions document](#)
- Meet the expectations set out in the [Teachers' Standards](#)
- Take specific responsibility and accountability for the day-to-day management and organisation of their key subject

Duties and responsibilities

Teaching and learning

- Plan and deliver engaging, well-structured science lessons at KS3-KS5 in line with the national curriculum
- Teach all three science disciplines (Biology, Chemistry, and Physics) at KS3 and at least one science discipline at KS4
- Deliver high-quality, specialist Physics teaching at KS5, including preparation for A-Level examinations
- Foster a passion for science and Physics through engaging, practical, and theory-based lessons
- Ensure a strong focus on experimental and investigative work, particularly in Physics KS5
- Teach mathematical applications relevant to Physics, ensuring students develop confidence with calculations, data analysis, and problem solving
- Assess, monitor, record, and report on pupils' progress, making effective use of assessment to inform planning and teaching
- Adapt teaching to support the strengths and needs of pupils, ensuring all students make good progress
- Set high expectations to inspire and motivate pupils
- Maintain high standards of behaviour and discipline to create a safe and engaging learning environment
- Communicate effectively with pupils, parents, and carers
- Participate in arrangements for preparing pupils for external tests and examinations



- Implement whole-school SEND support strategies to ensure inclusivity in learning
- Promote excellent progress and outcomes by pupils
- Support students with university applications and career pathways in Physics, engineering, and related STEM fields
- Demonstrate excellent subject and curriculum knowledge
- Participate in arrangements for preparing pupils for external tests
- To be punctual for school and staff briefings
- To be ready for lessons meeting pupils at the door to ensure an orderly changeover between lessons and a purposeful start to the lesson
- To dismiss pupils in an orderly fashion from the room
- To contribute to the production of departmental documentation including schemes of work, resources, examinations, tests etc
- To help with the smooth running of the department by undertaking tasks as requested and directed by the Head of Department
- Support students with their post-16 science education choices, providing guidance on A-Level and vocational pathways
- Develop effective professional relationships with colleagues with the focus on subject / department
- Maintain accurate records of students' achievements and development.
- Prepare and present reports on pupil progress to parents and stakeholders as required.
- Make a positive contribution to the wider life and ethos of the school
- Provide cover, in the unforeseen circumstance that another teacher is unable to teach
- Take part in the school's appraisal procedures
- Participate in further training and development in order to improve own teaching

Personal and professional conduct

- Uphold public trust in the profession and maintain high standards of ethics and behaviour, within and outside school
- Have proper and professional regard for the ethos, policies and practices of the school, and maintain high standards of attendance and punctuality
- Understand and act within the statutory frameworks setting out their professional duties and responsibilities

Safeguarding and pastoral care

- Work in line with statutory safeguarding guidance (e.g. Keeping Children Safe in Education, Prevent) and our safeguarding and child protection policies to promote the safeguarding of all pupils' in the school
- Work with the designated safeguarding lead (DSL) to promote the best interests of pupils, including sharing concerns where necessary
- Contribute to the pastoral care system by acting as a form tutor, or an active member of a year group, supporting students' personal and academic development.
- To carry out his/her responsibilities at all times with due regard to The school's policy, organisation and arrangements for Health & Safety at Work
- You must promote and safeguard the welfare of children, young and vulnerable people that you are responsible for or come into contact with
- Register students, accompany them to assemblies, encourage their participation in all aspects of school life



Additional areas of responsibility for the upper pay range (UPR)

- Contribute significantly to the development, implementation and evaluation of the school's policies, practices and procedures, so as to support the school's vision and values
- Have extensive knowledge of their subjects/curriculum areas, related pedagogy and assessment
- Be an outstanding classroom practitioner and role model for teaching and learning
- Make a distinctive contribution to the raising of pupil standards
- Put strategies in place to secure target grades for all pupils at KS4 & KS5
- Take advantage of appropriate opportunities for professional development and use the outcomes effectively to improve pupils' learning
- Lead on teaching and learning, and pedagogy and curriculum initiatives in a subject or year group
- Provide pastoral care as required and being aware of mental health and wellbeing needs
- Provide advice, coaching and mentoring to other teachers in order to help them develop and meet the relevant standards

The classroom teacher will be required to safeguard and promote the welfare of children and young people, and follow school policies and the staff code of conduct.

Please note that this is illustrative of the general nature and level of responsibility of the role. It is not a comprehensive list of all tasks that the examinations officer will carry out. The postholder may be required to do other duties appropriate to the level of the role, as directed by the headteacher.



Person specification

CRITERIA	QUALITIES
Qualifications and training	<p>Essential:</p> <ul style="list-style-type: none"> ● A degree in Science or related subject ● GCSEs in English and Math's (grade C or above) ● Qualified teacher status (QTS) <p><i>Desirable:</i></p> <ul style="list-style-type: none"> ● Evidence of CPD
Experience	<p>Essential:</p> <ul style="list-style-type: none"> ● Experience teaching science at KS3 and KS4 ● Experience teaching Physics at KS5 ● Experience leading practical Physics lessons and ensuring laboratory safety ● Experience preparing students for GCSE and A-Level science exams <p><i>Desirable:</i></p> <ul style="list-style-type: none"> ● Experience of working with others to develop teaching and learning initiatives ● Experience supporting students with university applications for STEM subjects
Professional development	<p>Essential:</p> <ul style="list-style-type: none"> ● Commitment to ongoing professional learning and development ● Willingness to participate with whole-school initiatives <p><i>Desirable:</i></p> <ul style="list-style-type: none"> ● Evidence of attending subject-specific CPD courses or workshops
Skills and knowledge	<p>Essential:</p> <ul style="list-style-type: none"> ● Strong subject knowledge in Physics and general science ● Good understanding of the KS3, KS4, and KS5 Science and Physics curriculum ● Ability to teach mathematical aspects of Physics, including calculations, formulas, and data analysis ● Strong classroom management skills with the ability to maintain a positive learning environment ● Excellent communication, with the ability to build effective working relationships with pupils, parents, and staff ● Strong organisational skills with the ability to plan engaging lessons and manage department resources effectively ● Ability to use assessment data to track progress and inform lesson planning ● Willingness to participate with whole-school initiatives ● Knowledge of effective teaching and learning strategies ● A good understanding of how children learn ● Ability to adapt teaching to meet pupils' needs ● Knowledge of guidance and requirements around safeguarding children ● Knowledge of effective behaviour management strategies ● Good ICT skills



	<ul style="list-style-type: none"> ● Ability to plan strategically, monitor effectively and evaluate analytically ● Extensive knowledge and well-informed understanding of the assessment requirements and arrangements for the subject/curriculum area you teach ● Good knowledge of legislation and guidance on curriculum requirements ● Knowledge of effective teaching and learning strategies ● A good understanding of how children learn ● Ability to adapt teaching to meet pupils' needs ● Knowledge of guidance and requirements around safeguarding children ● Knowledge of effective behaviour management strategies ● Good ICT skills ● Ability to plan strategically, monitor effectively and evaluate analytically ● Extensive knowledge and well-informed understanding of the assessment requirements and arrangements for the subject/curriculum area you teach <p><i>Desirable:</i></p> <ul style="list-style-type: none"> ● A sound understanding of the Ofsted framework ● Ability to employ a range of resources and teaching and learning strategies, encouraging differentiated learning ● Awareness of current developments in Physics education and STEM careers ● Ability to integrate technology into science teaching
<p>Personal qualities</p>	<p>Essential:</p> <ul style="list-style-type: none"> ● Passionate about science and physics, with a commitment to inspiring students ● Enthusiastic and innovative in teaching approaches ● A commitment to getting the best outcomes for all pupils and promoting the ethos and values of the school ● High expectations for pupils and belief in their potential ● Commitment to always act with integrity, honesty, loyalty and fairness to safeguard the assets, financial integrity and reputation of the school ● Ability to work under pressure and prioritise effectively ● Commitment to maintaining confidentiality at all times ● Commitment to safeguarding and equality