

CHARTERS
— SCHOOL —

Teacher of Science
Information 2026



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Thank you for taking the time to look at this teaching opportunity at Charters School.

The science department sits at the heart of the school and benefits from excellent accommodation and resources. Science courses at 'A' Level are very popular with over 100 students taking at least one 'A' Level in Biology, Chemistry or Physics and BTEC applied science. This high uptake alongside extra-curricular opportunities and a fully differentiated curriculum makes the department an exciting place to work.

If you are an ECT you will benefit from a comprehensive induction programme not only within the school but also within the department. The school and the department are a fantastic place to develop your teaching skills.

Relationships across the school between parents, students and staff are warm and positive which makes Charters an environment that is a pleasure to work in and develop your career at.

Charters' motto, 'Unity Respect Excellence' underpins all that we do, from our interactions with students leading to strong academic outcomes, excellent extra-curricular opportunities and the development of the individual. 'Unity Respect Excellence' also underpins how we develop our staff with our extensive professional development and well-being programmes.

In joining our community, you will be part of an organisation that will support you in your career goals and help you to develop as an individual.

I look forward to receiving your application.

Best wishes
John Fletcher



Science at Charters School

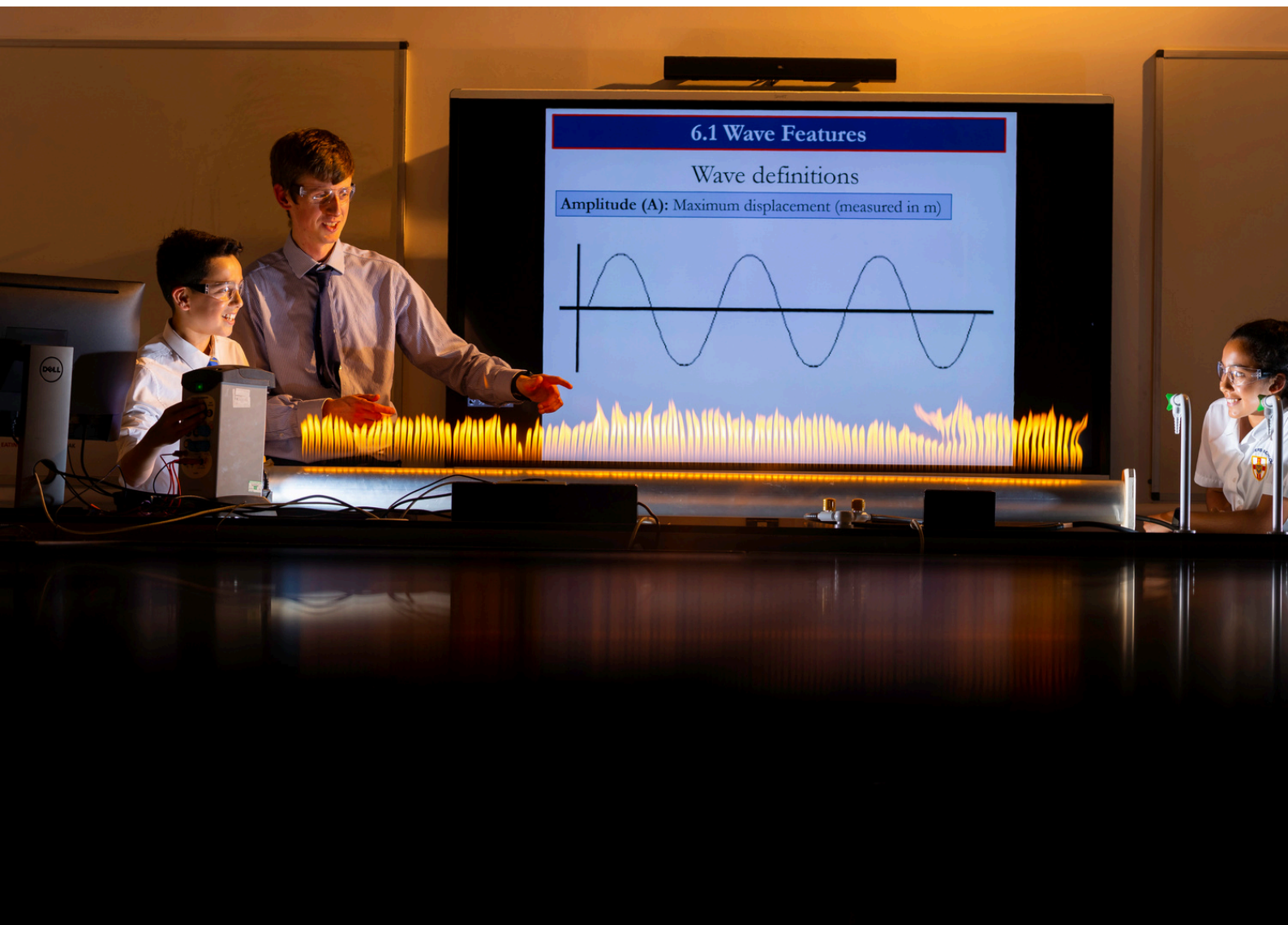
We are looking for a passionate and hard-working Science teacher to join our team at Charters!

Our science department is down-to-earth, supportive, and focused on creating an environment where both students and teachers thrive.

Our team is made up of teachers from a wide range of backgrounds, and we're proud of the diverse passions and talents we bring to the classroom. Our team includes runners, climbers, rugby players, dancers, musicians, photographers, bakers, readers, and pub quiz enthusiasts; whatever your interests, we hope you'll feel comfortable in this creative and closely bonded department that works very hard to support and inspire each other.

We have a reputation across the school as a fun and engaged group, champions of the school karaoke competition, pioneers of the school biodiversity contest, and most recently creators of a Periodic Table of Books - an inspiring display that encourages cross-curricular reading. The Science department is all about making learning exciting, engaging, and hands-on.

We believe in collaboration, and our teachers work closely together to plan dynamic, student-centered lessons that spark curiosity and a love for discovery. From experiments that get students excited about the world around them to sharing best practice and new teaching techniques, we're committed to continuous improvement. You'll be part of a team that values input, supports each other, and has a shared focus on delivering excellence, which we also expect from our students.





Post Title	Teacher of Science
Salary	Charters School Pay Scale 1-9
Responsible to	A member of the Science Leadership Team
Job Purpose	
<p>To contribute to raising standards of student achievement and attainment in a subject area or areas by teaching a timetable of lessons and supporting the Science Leadership Team the achievement of whole school and departmental targets.</p> <p>All teachers at Charters School are expected to meet the National Standards (Parts 1 and 2).</p>	
Key Responsibilities	
<ul style="list-style-type: none">To have high expectations of all students based on relevant dataTo teach using a variety of delivery methods which will stimulate learning, meeting the demands of the curriculum and through scaffolding and objectives ensure that the needs of all students are metTo maintain discipline in accordance with the school's procedures and encourage good practice with regard to punctuality, behaviour and standards of workTo assess students' work in-line with school policies and procedures referring to student performance targetsTo contribute to the development and implementation of the Department's strategic improvement planTo attend and contribute to Department meetingsTo use data, both externally and internally produced, to assess student performance and to develop appropriate courses of actionTo review on a regular basis methods of learning and teachingTo be a form tutor to an assigned group of studentsTo register studentsTo notify the designated safeguarding lead immediately about any concerns relating to a studentTo participate in the school's professional learning programmeTo continue personal development in relevant areas especially subject knowledge and teaching methodsWhere appropriate, ensure the effective deployment of classroom supportTo attend Open Evenings, Parents' Consultation Evenings.To attend staff briefings and meetingsTo undertake break duties as detailed in the staff Duty RotaTo comply with the current school policies and procedures	
Key Tasks	
<ul style="list-style-type: none">To assess, record and report on the attainment, attendance and progress of students keeping such records as are requiredTo provide or contribute to oral and written assessments, reports and references relating to individual or groups of studentsTo prepare and update subject materials, including schemes of workTo assist the Science Leadership Team in the development of appropriate syllabuses, resources, schemes of work and teaching strategiesTo plan and prepare sequences of lessons to show progress over timeTo produce interim and annual reports for all students taught in line with the school's Learning and Teaching PolicyTo communicate with parents and outside agencies as appropriateTo attend form tutor meetings as arranged by the Head of YearMentoring a student or trainee teacher as appropriateTo engage actively with the school's Performance Review programme	



Teacher		
Salary: Charters Pay Scale 1–9		
	ESSENTIAL	DESIRABLE
Qualifications and Training	QTS Degree in subject / related subject Skills in ICT	Additional relevant qualifications
Experience	Able to teach Science subject to Key Stage 4	KS5 and an expectation to teach across all three sciences at KS3
Health, Attendance and Reliability	Good attendance and reliability Professional dress Professional commitment Good timekeeping	
Quality of Relationships	An ability to work with members of a team Good teacher-student skills Ability to display fairness and respect for students and colleagues Excellent classroom management	
Curriculum Work	A natural enthusiasm for the teaching of Subject Originality and creativity in the planning of SoW and the delivery of lessons	Some evidence of curriculum development
Pastoral Work	Willingness to act as a form tutor Appreciation of the role of the tutor in monitoring student progress Commitment to the students in the tutor group in terms of their personal and social development Commitment to communicating when appropriate with parents	Experience as a form tutor or attached tutor
Generic Attributes	Conscientiousness and tenacity Ability to meet deadlines Sense of humour Stamina, resilience and flexibility Organisation Commitment to own professional learning and that of other colleagues including those wishing to enter the profession	
Dispositions and values	Commitment to comprehensive education Commitment to the achievement of all students	

SKILLS

KEY STAGE 5

You will be able to...

Knowledge
demonstrate broad and detailed knowledge using Scientific terms in familiar and unfamiliar contexts

Exam Technique
give complete, concise, well structured explanations to familiar and unfamiliar contexts using appropriate Scientific terminology that link different parts of the specification

Maths Skills
carry out complex, multi-step quantitative calculations giving accurate and precise results

Data Analysis
evaluate quantitative and qualitative data from familiar and unfamiliar contexts to give fully justified conclusions

Practical Skills
precisely predict outcomes in a range of familiar and unfamiliar procedures and evaluate a method's accuracy and validity

KEY STAGE 4

You will be able to...

Knowledge
Give detailed answers about familiar and unfamiliar topics using Scientific Terms

Exam Technique
Provide detailed descriptions and explanations

Maths Skills
Carry out complex multi-step calculations

Data Analysis
Draw detailed conclusions selecting and critically analysing data

Practical Skills
Evaluate experimental methods and evaluate their accuracy and validity

KEY STAGE 3

You will be able to...

Knowledge
Give detailed answers about familiar and unfamiliar topics using Scientific Terms

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BIOLOGY CURRICULUM ROUTEMAP

We encourage Biology students at Charters School to develop an understanding and appreciation for the life surrounding them. We offer a supportive yet challenging environment with varied opportunities to explore the natural world through research, group experiments and enquiry-lead learning.



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CHEMISTRY CURRICULUM ROUTEMAP

Chemistry students at Charters School will develop understanding and awareness of the science that surrounds them and how chemical reactions are an integral aspect of their daily lives. They will develop technical expertise with a range of equipment, and knowledge of how science and technology changes society, from forensics to formulations and combustion to climate change. Transferable skills, such as the scientific methods and data analysis, will prepare them with the knowledge needed for their future as an informed citizen, alongside providing strong foundations for a specialised scientific career

Enthalpy & Entropy
You will learn why some lattices are harder to break apart and the concept of entropy in the Universe



Acids, bases, pH & buffers
You will learn how to explain strong and weak acids qualitatively and quantitatively, and uses of buffers in the body

Electrode potentials & Transition metals
You will learn the use of redox reactions to generate potential energy and how transition metals form complexes

Aromatic molecules, carbonyls, amino acids & proteins
You will learn more complex organic reactions and natural and synthetic examples in society

Advanced Organic synthesis & Spectroscopy
You will learn How to synthesise more advanced organic molecules and analyse them using TLC chromatography and NMR spectroscopy

Enthalpy, Rates & Equilibrium
You will learn how to measure enthalpy changes, bond enthalpies, Hess's law, the Boltzmann distribution and Kc

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How far? and How Fast?
You will learn orders or reactions, the rate-determining step and equilibrium constants for solutions and gases

Organic synthesis & Spectroscopy
You will learn How to synthesise a wide variety of new molecules, mass & IR spectroscopy

Organic reactions
You will learn the mechanisms of electrophilic addition and free radical substitution

The Earth's Resources
You will learn about natural resources and sustainability

Using the Earth's Resources (triple only)
You will learn more about sustainability and different materials

Transition - re-cap maths skills
You will learn all about the amounts of substance in solids, solutions and gases, and making how much you want in a reaction

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The Earth's Atmosphere (combined)
You will learn the evolution of the Earth's Atmosphere, formation of life on Earth, and climate changes

Crude Oil & fuels (combined)
You will learn the origins and uses of fossil fuels, and their pollutants

Acids, redox, bonding & shapes
You will learn To titrate acids and explain why substances are acids, oxidation numbers, extended knowledge of bonding and shapes of molecules

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Chemical Analysis
You will learn the different tests for gases, chromatography and triple students will learn the qualitative tests for ions

Organic reactions & polymers (triple only)
You will learn how to synthesise new molecules and all about natural polymers, including DNA

Energy changes
You will learn how to quantify energy changes, and use this to change reaction quantities

The Periodic Table
You will learn about trends and patterns in properties of elements

Structure and bonding
You will learn about natural and synthetic structures and 3 types of bonding

Chemical changes (2)
You will learn how electricity is used to extract elements from compounds & use in society

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Atomic structure
You will learn all about sub-atomic particles

Chemical changes (1)
You will learn how to explain the chemical reactions that students carry out in the lab

Chemical calculations
You will learn how to calculate how much substance is needed to make what you want, and how this links to everyday life

Types of Reaction
You will learn key types of reactions and practical skills

Elements
You will learn where and how different elements were found

Climate and Global Warming
You will learn that climate is 'patterns of weather' and human impact on climate

The Night Sky
You will learn the features of the night sky

Pure Substances and Mixtures
You will learn practical methods for separating mixtures

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Transition to laboratory skills
You will learn how to work safely in a lab

Chemical Energy
You will learn about energy transfers in reactions

Periodic Table
You will learn why the periodic table is arranged as it is

Earth's Resources
You will learn all about our natural resources and how to extract them

The Particle Model
You will learn all about the structure of solids, liquids & gases and how their resulting properties as materials

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Structure of the Earth
You will learn the layers of the earth and atmosphere

Chemical Reactions
You will learn the signs of a reaction and practical experiments

More about Elements
You will learn key concepts of elements, mixtures & compounds

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PHYSICS CURRICULUM ROUTEMAP

Physics students at Charters School will develop understanding and awareness of the Physics that surrounds them. They will learn to evaluate critically how science and technology changes society. With varied opportunities to learn through research, discovery and developing their practical skills, students will be engaged in and enjoy their learning. Students will develop teamwork skills, apply numeracy, and learn to effectively communicate their knowledge. These transferable skills will prepare them for their future in society and any career path they choose, alongside providing strong foundations for specialised Physics and Engineering Careers.

Gravitational Fields
You will learn how gravity affects objects with mass

Electric and Magnetic Fields
You will learn to analyse electric and magnetic fields and explain observations using your knowledge of fields

Space Physics
You will learn about a variety of celestial bodies and the history of the Universe

Particle and Nuclear Physics
You will learn about fundamental particles and how Scientists use radioactive materials safely

Medical Physics
You will learn how a variety of topics studied throughout your Physics learning are applied in the medical profession

Waves and Quantum
You will learn to analyse and explain wave phenomena, and how Scientists use waves in a variety of situations. You will also be introduced to the fundamental principles of Quantum Physics

Capacitors
You will learn what a capacitor is, and how Scientists and electricians use them

Space (Triple Only)
You will learn about a variety of celestial bodies, including the life cycle of star and evidence to support the big bang theory

Circular Motion and Simple Harmonic Motion
You will learn to analyse the motion of objects moving in a circular path and oscillating objects

Forces and Motion
You will learn how to explain the motion of objects in a wide variety of scenarios

Thermal Physics
You will learn how internal energy impacts the properties of materials, and why gases behave in the way they do

Energy and Materials
You will learn what affects the way certain objects behave, and how Scientists and Engineers can use these to their advantage

Electromagnetism
how electricity and magnetism are linked, as well as how many electrical devices rely on this relationship to function

Electricity
You will learn how to apply knowledge of electricity to a wide variety of circuits that contain an array of components

Forces and Interactions
about a variety of Forces, and how these Forces affect a variety of objects

Radioactivity
You will learn what it means for a substance to be radioactive, as well as some uses and dangers of such substances

Waves
You will learn what a wave is, and look at a variety of their waves and uses

Energy Transfers
You will learn about a variety of ways Energy can be transferred between objects

Energy Resources
You will learn where the Energy the supplies our houses comes from

Forces and Motion
how Forces dictate the ways in which objects will move

Circuits
You will learn how to construct circuits, how electricity works and about a wide variety of electrical components

The Particle Model of Matter
You will learn about differences in solids, liquids and gases

Light
You will learn how we see objects and why objects appear coloured

Contact Forces
You will learn about different types of Forces, and consolidate work done in year 7 on the effect of Forces

Energy Stores
You will learn different ways Energy can be stored

Electricity
You will learn how electromagnets work, and consolidate work on how electricity works

Magnetism
You will learn what magnetic materials are and how they behave

Work
You will learn about ways in which Energy can be transferred

Pressure
what impacts the pressure applied to objects

Waves
You will learn what a wave is, and how we hear sounds

Transition to laboratory skills
You will learn basic lab safety and how to use some common equipment

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