



NPL
National Physical Laboratory

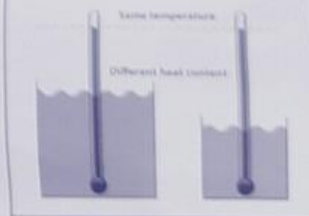
How hot is it?

NPL
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What is sound?

The temperature of an object is a measure of how hot or cold it is. The metric unit of measurement for temperature is the degree Celsius (°C). The temperature measured on a Celsius scale is called the Celsius (°C).

Heat is the amount of thermal energy an object contains, measured in Joules (J).



As a crude measurement of temperature is what we mean by feeling, from making steel to preparing food, it is also crucial to scientific discovery.

Thermometers have a measurable property that changes with temperature. Scientists first check how the property varies with temperature and calibrate the thermometer so it reads correctly at some standard temperatures, for example, at the freezing temperature of water (0 °C).

Type of thermometer	Measurable property	Temperature range	Features
Traditional glass	Thermal expansion of the liquid	-100 °C to +1000 °C	Low cost
Resistance	Electrical resistance	-200 °C to +1000 °C	More accurate
Thermocouple	Voltage generated by the junction of two different metals	-200 °C to +1000 °C	Compact and robust
Infrared	Intensity of infrared radiation emitted by an object	-50 °C to +1000 °C	No need to touch the object

Did you know?
The National Physical Laboratory (NPL) has made the most accurate measurement of the speed of sound in air at sea level which works by measuring the time it takes for sound to travel a known distance. In calibrations will give the world's most accurate measurements.



Sound waves travel through different materials - solids, liquids or gases - but not through a vacuum, as there are no particles to vibrate. The sound wave can be plotted, with the x-axis representing time and the y-axis the variation in pressure (as the particles are compressed and decompressed by the passing wave).



Frequency of the wave is perceived by our ears as pitch. The frequency of the sound is the number of cycles per second. It is measured in Hertz (Hz). Increasing the frequency of the wave increases the pitch that we hear.

Did you know?
The National Physical Laboratory (NPL) accurately measures sound in air, at sea level, which works by measuring the time it takes for sound to travel a known distance. In calibrations will give the world's most accurate measurements.

www.npl.co.uk



YEAR 11 TARGET GRADES	BIOLOGY		PHYSICS	
	GRADE 9-7	39%	GRADE 9-7	39%
	GRADE 9-5	97%	GRADE 9-5	97%
	GRADE 9-4	99%	GRADE 9-4	99%
	CHEMISTRY		SCIENCE TRILOGY	
	GRADE 9-7	41%	GRADE 9-7	0%
	GRADE 9-5	97%	GRADE 9-5	29%
	GRADE 9-4	99%	GRADE 9-4	83%

Teacher of Science (Biology or Physics Specialist) – September 2026
Full Time



Job Description

Job Description: Teacher of Science (With Biology or Physics Specialism) (Full-Time)

Start Date: September 2026

New Scale Point: MPS/UPS

- Planning and preparing courses and lessons, adapting centrally planned resources to meet the needs of each class
- Must be able to teach Science to a good or outstanding level
- Teaching: adaptive according to the educational needs of each student
- Setting of homework as per department policy.
- Marking summative assessments and providing formative feedback on interim formative assessments as per the department feedback policy
- Assessing, recording, and reporting on the development, progress and attainment of students
- Provide or contribute to oral and written assessment, reports and references relating to individual students and groups.
- Promote the general progress and well-being of individual students and classes.
- Provide guidance and advice to students on educational and social matters and on their further education and future career plans, including information about sources of more expert advice on specific questions, making relevant records and reports.
- Make records of and report on the personal and social needs of students
- Communicate and consult with parents.
- Lead a form group.
- Communicate and co-operate with persons or bodies outside school.
- Participate in meetings arranged for any of the purposes described above.
- Offer an extracurricular activity.
- Participate in appraisal of your performance and that of other teachers.
- Periodically review your methods of teaching and programmes of work
- Participate in arrangements for further training and professional development including those aimed at meeting the need identified in performance objectives or in performance statements.

- Participate in an induction programme arranged for your supervision and training.
- Advise and co-operate with the Headteacher, department lead and other teachers on the preparation and development of courses of study, teaching materials, teaching programmes, methods of teaching and assessment and pastoral arrangements.
- Maintain good order and discipline among students and safeguard their health and safety both when authorised to be on the school premises and when they are engaged in authorised school activities elsewhere.
- Participate in meetings at the school which relate to the curriculum of the school or the administration or organisation of the school, including pastoral arrangements.
- Participate in arrangements for preparing students for external examinations, in assessing students for the purpose of such examinations and recording and reporting such assessments and participating in arrangements for students' presentation for and supervision during such examinations within the guidelines agreed.
- Participate in appropriate administrative and organisational tasks relating to such duties as are described above, including the direction or supervision of persons providing support for the teachers in the school.
- Attend assemblies, registering the attendance of students and supervising students, whether these duties are to be performed before, during or after school sessions.
- Other Specific Duties as directed by the Headteacher or appropriate Line Manager

Wellbeing

Ensure all pupils have equal access to learning using appropriate strategies and resources, where necessary.

Liaise with pastoral staff members to ensure the wellbeing of pupils and their full participation in school life.

Raise any concerns regarding pupils' behaviour with the relevant Raising Standards Lead.

Implement any specific arrangements for individual pupils, ensuring that relevant staff members are aware of the measures in place.

Provide individual pastoral support to pupils, where necessary.

Continuously motivate and challenge pupils, whilst promoting and reinforcing self-esteem.

Safeguarding

To have the ability to safeguard and promote the welfare of children and young people.

Appreciate the significance of safeguarding and interprets this accurately for all individual children and young people whatever their life circumstances.

To have a good understanding of the safeguarding agenda and can demonstrate an ability to contribute towards a safe environment.

The ability to converse at ease with members of the public and provide advice and information in accurate spoken English is essential for the post.

Variation Clause

This job description will be reviewed and updated periodically in order to ensure that it relates to the job performed or to incorporate any proposed changes. This procedure will be conducted by the Headteacher or line manager in consultation with the post-holder. In these circumstances it will be the aim to reach agreement on reasonable changes but if agreement is not possible management reserves the right to make changes to the job description following consultation.

		Met	To be addressed by
Education and Qualifications	<ul style="list-style-type: none"> • Qualified Teacher Status or NQT • First/Second Class Degree • Willingness to continue to develop own expertise (evidenced through continuing professional development) • Appropriate qualifications, experience and any other requirements needed to perform the role in relation to safeguarding and promoting the welfare of children and young people. 		Application
Teaching Experience	<ul style="list-style-type: none"> • Evidence of consistently good or outstanding teaching and learning • Evidence of good or outstanding classroom management skills • • The ability to use ICT effectively to engage students • The ability to create effective lesson plans • An understanding of how to use assessment to inform planning for good teaching and learning. • The ability to differentiate materials to meet the needs of learners • Experience or desire to be involved in a curriculum initiative • Experience or desire to raise standards of achievement 		Application/Interview
Skills, Knowledge and Aptitude	<ul style="list-style-type: none"> • Excellent subject knowledge. • Good ICT skills and their application to teaching with subject specialism • Good/outstanding classroom practitioner able to motivate students • Able to build good relationships with students and colleagues • Ability to communicate effectively with different audiences, orally and in writing • Well organised and able to maintain accurate records and track students performance • Awareness of current educational developments • Ability to reflect on practice 		Application / Interview

Personal Qualities	<ul style="list-style-type: none">• Hardworking and committed to inclusive education• A belief in the value of individuals and that every child genuinely matters• A commitment to excellence and working in partnership• A willingness to learn and develop new skills• Commitment to continuing professional development• To work proactively within the ethos of the school• Capacity for working under pressure.• Resilience and a sense of humour.• Reliable with excellent attendance and punctuality• Problem solving and loyal to organisation• The ability to converse at ease with members of the public and provide advice and information in accurate spoken English is essential for the post		Application / Interview

Select from the buttons below...

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from the
Headteacher](#)

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College,
Ramsey](#)

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our staff](#)

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Welcome from the Headteacher



“At Abbey College, Ramsey, we believe in **creating an extraordinary** workplace, where your growth, both personally and professionally, is paramount.

We’re committed to your development and offer an extensive programme of CPD and development activities. We’ve earned the **Early Career Development Quality Mark** underlining our commitment to excellence and offering exceptional frameworks that support our teachers in their early years.

We know that our children **only get one chance** at school. Our mission is to provide high-quality education and ensure the best possible opportunities for our students.

If you’re ready to make a real impact on young lives and be part of a supportive community, **we invite you to join us.**”

Mr Andy Christoforou

About Abbey College, Ramsey

Select from the buttons...

Explore the College



The College virtues



Our Ofst & success



Click the home icon to go back to the start 

Your new workplace

Explore the college...

Explore our school's prime location, nestled beside the **historic Ramsey Abbey building** amidst its picturesque countryside.

Despite our tranquil setting, we're just 20-25 minutes from **bustling cities** Peterborough and Huntingdon. Plus, thanks to our **prime location** near the A1 motorway, you can reach **Cambridge** in just 40 minutes and **London** is a swift 45 minutes from the **Peterborough** train station.

Join us in **Ramsey**, where the blend of historic charm, urban accessibility and natural beauty creates **an ideal setting for educators to thrive**.



CLICK [HERE](#) FOR A STUDENT-LED TOUR

[About Abbey College, Ramsey](#)



THE RAMSEY ABBEY



PRIME LOCATION



PICTURESQUE SETTING



Our virtues

Introducing Abbey College Spirit

At the core of our community lies our **Spirit**; a dynamic set of virtues that define who we are and **how we thrive together**.

We invite **every** member of our school community to work towards these values. Students are **recognised** and **rewarded** when they demonstrate the virtues, both within the wider school and in the community. Throughout Key Stage 3, students have the opportunity to earn **bronze, silver, and gold awards**.

You have the chance to **impart these values**, ensuring our **students** wear their badges with **pride** when receiving them.

[About Abbey College, Ramsey](#)

SPIRIT
HUMILITY

We practice praise, good manners and appropriate humour, whilst embracing collaboration with diverse individuals. We celebrate difference, take responsibility for our actions, and support each other.

SPIRIT
INTUITION

We consider the impact of our actions on others. We listen to others and provide constructive feedback, while diligently seeking, reflecting upon, and acting upon advice.

SPIRIT
PASSION

We use positive language and go above and beyond. When faced with challenges, we take proactive measures with determination. We show pride in our work, our school, and our community.



Our Ofsted success

Click each button to see videos of how our school showcases aspects of our 'Good' Ofsted rating



[The quality of education](#)

[Behaviour and attitude](#)

[Personal development](#)

[Leadership and management](#)

[Sixth-form provision](#)

[Read the full report](#)

[About Abbey College, Ramsey](#)



Staff testimonials

Read about our staff member's career journeys with us by selecting their photos....



GABRIELLE, LEAD LEARNER
FOR Moral and
Spiritual



KAREN, TEACHER OF
CATERING AND PSYCHOLOGY



GEORGINA, HEAD OF ART AND
DESIGN



JOHN, LEAD LEARNER FOR
HISTORY



FIONA, RAISING STANDARDS
LEAD



DOMINIC, MATHS TEACHER

[Hear from our staff](#)



TO SEE OUR OFSTED-
APPROVED BEHAVIOUR
SYSTEM IN ACTION...

[CLICK HERE](#)

“Abbey College, Ramsey is a **vibrant community** where **mutual respect, tolerance, and a love for learning** are all embraced. As Head of Moral and Spiritual Education, I am proud to contribute to encouraging these **virtues** in students. Throughout our curriculum, we prepare students for life in a multicultural society.

“What **sets Abbey College apart** is its **strong behaviour system** which encourages educators like me to focus on teaching and students to **thrive** in a **structured, calm environment**. For people thinking of joining, I advise you to embrace the behaviour policy, enjoy the routines, and **never hesitate to ask any questions**.

“As a former student myself, the college has a **special meaning for me**. I returned because of its **supportive environment** and the opportunity to give back to a community that has helped **shape me into the teacher I am today**.

[Hear from our staff](#)



“As a Lead Learner for History, I ensure the **highest possible standard of history education** through engaging and purposeful activities embedded in our lessons, within a **diverse and challenging curriculum**.

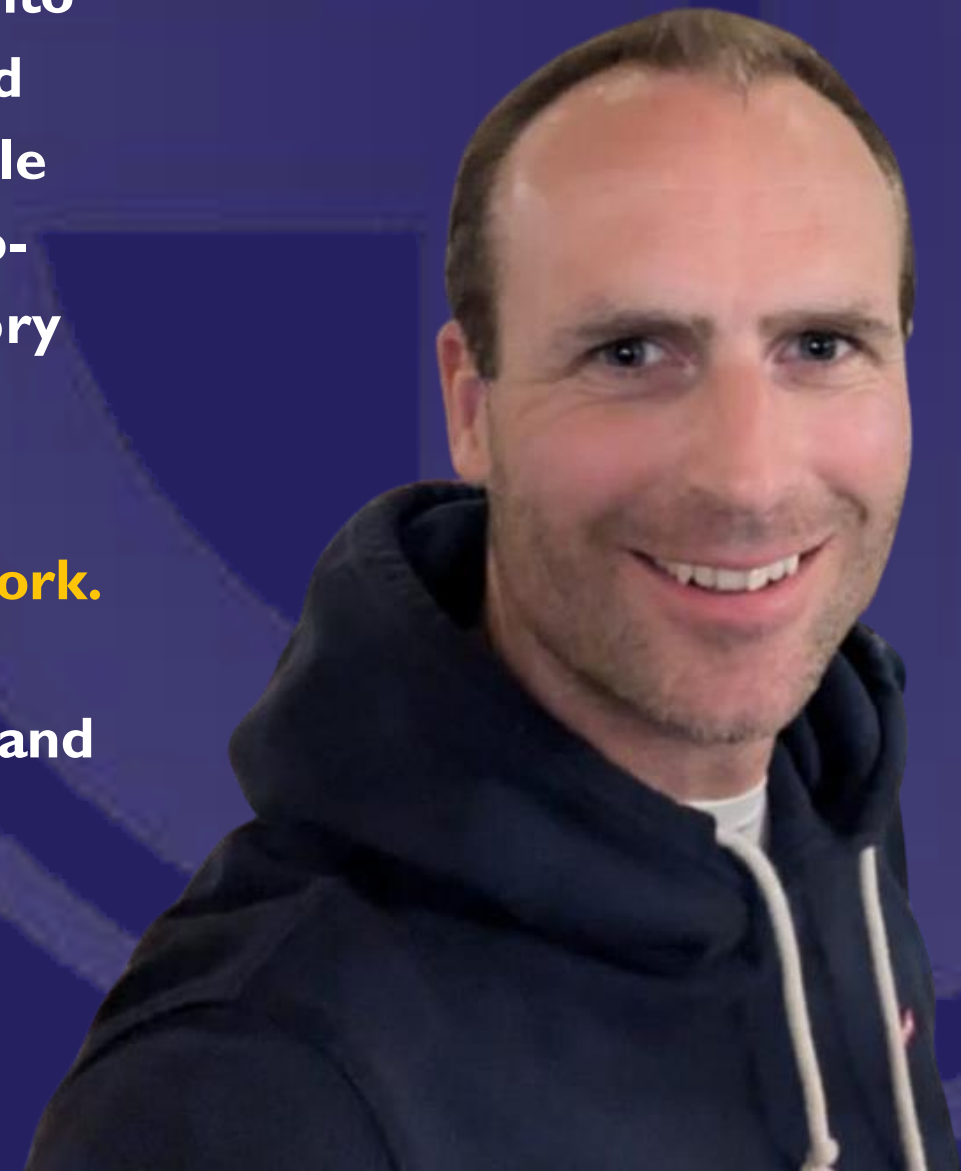
I enjoy **collaborating with my team**, whether it's over a cup of tea or through our departmental Teams chat. This serves as an invaluable platform for sharing ideas, resources, and of course, the occasional amusing History-related meme!

Seeking to broaden my experience and with **the goal of progressing my career** into senior leadership, I was drawn to Abbey College. The school has since provided excellent support in **my professional development**, including funding for a middle leadership course run by the Historical Association, a year-long role as HPA co-ordinator, an NPQ in senior leadership, and through the network of other History teachers within schools across Meridian Trust.

The supportive environment at Abbey College makes it a **truly special place to work**. I highly recommend staff members who join the school see the brilliant work happening in classrooms on a daily basis. It's a brilliant way of gaining inspiration and new ideas.”

Read about our

[TRAIN-TO-TEACH SCHEME](#)



[Hear from our staff](#)



[CLICK TO SEE A DAY IN THE LIFE OF
OUR SCHOOL WELL-BEING DOG!](#)



“I’ve found an **incredibly supportive** environment at Abbey College, Ramsey. The school’s strong senior leadership team encourages a sense of community through their **open-door policy** and **approachable manner**. They’ve not only recognised skills and experience but have provided **ample opportunities to grow** and explore my interests within the school. From starting as a support staff member to transitioning into teaching, Abbey College has supported **my professional development** every step of the way, offering courses and mentorship to help me excel.

One of the most **rewarding** aspects of my role has been witnessing the **success stories** of our students. Abbey College truly prioritises **student well-being and shows genuine care** to its educators and students alike. It’s a place where ideas are shared freely, and everyone **works together** towards **academic excellence and personal growth.**”

[Hear from our staff](#)



“My role as a Maths Teacher is both challenging and incredibly rewarding. Situated in a **beautiful rural setting**, the school prioritises a **disruption-free learning environment**. This has been achieved by robust student policies and a dedicated support team.

Abbey College encourages a **collaborative environment** with regular informal check-ins and time for observing other lessons. Thanks to our **innovative and powerful management strategies**, the atmosphere throughout the school feels calm and focused, contributing to a **positive and productive learning experience for all**.

I particularly value the opportunities for **professional development** and the support provided by colleagues and senior leadership. The school’s commitment to staff is evident in the **flexibility and variety** of continuous professional development options available. I have greatly benefited from this support, which has helped me pursue my professional interests.

Joining Abbey College has been a **rewarding experience**. Its unique environment and policies, the support from colleagues, and the school’s commitment to its staff make it easy to develop your career in the direction **that best suits you.**”

[Hear from our staff](#)



“From the **picturesque location** to the **professional development opportunities**, Abbey College offers an environment where **students and educators alike flourish**.

Through our CPD programme tailored to individual needs, everyone has the opportunity to continuously grow within their subjects and refine their skills to deliver the best possible education. Whether just beginning a career or further along the path, the school’s selection of programmes enables every staff member to **reach their full potential**.

Teaching at Abbey College means being part of a culture that celebrates **passion and achievement**, with **rewarding opportunities** like one of our students’ artwork being showcased at the Royal Academy in London and our **Offers and Opportunities Programme (OOP)** that encourages staff and students to embrace their hobbies. Our community-driven ethos makes us feel valued and empowered to contribute to the school’s success.

Abbey College is like home. It’s a supportive community where **no one feels alone** on their educational journey.”

[Hear from our staff](#)

[Watch more about our](#)

OFFERS AND OPPORTUNITIES

[programme here](#).



“
What drew me to Abbey College, Ramsey was the chance to **make a real difference** in the lives of Year 6 students as they take their first steps in secondary school.

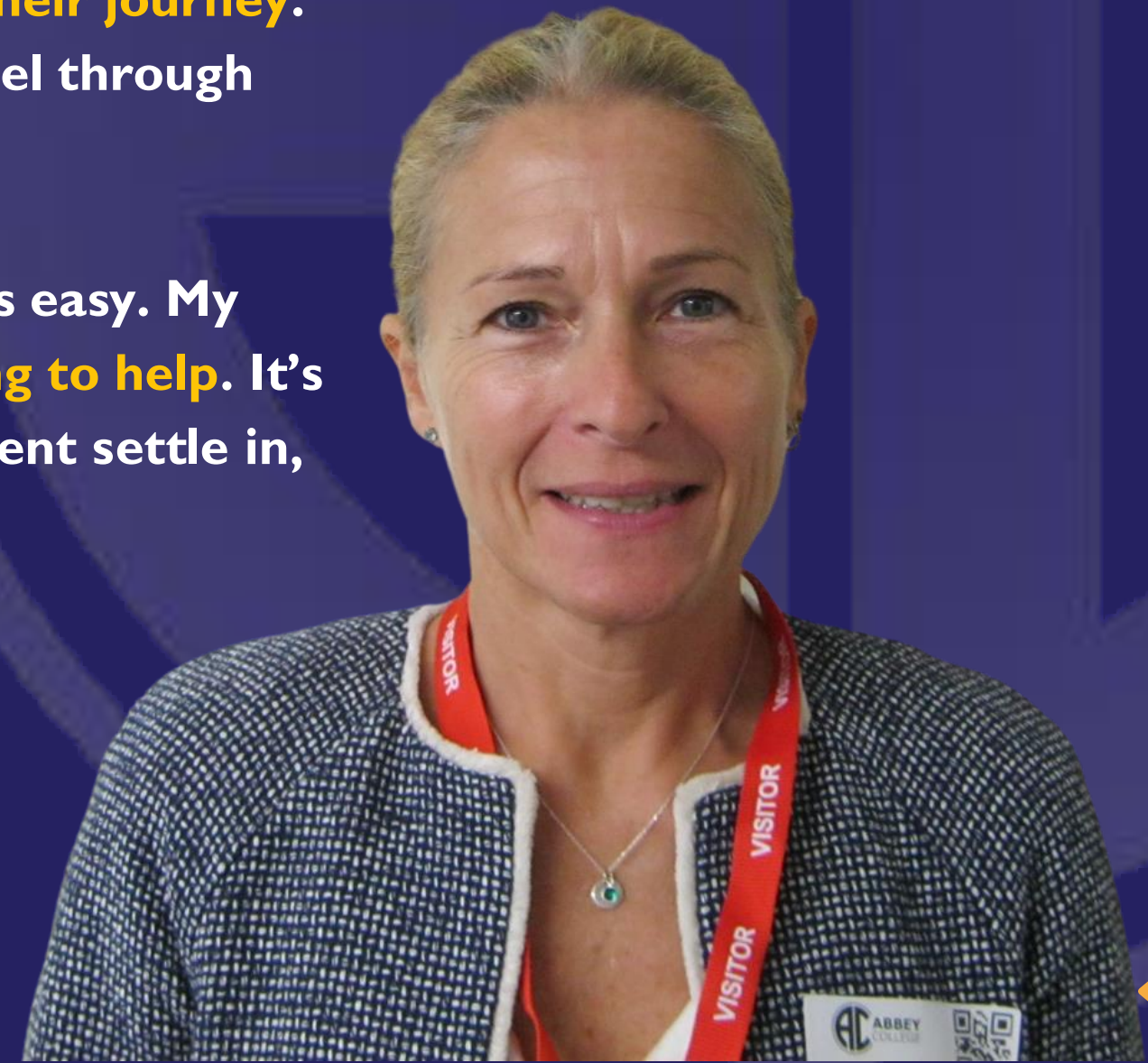
My role is to **guide these students** through their exciting, yet daunting transition. I am committed to providing each student with **more than just academic knowledge**; my goal is to **nurture their confidence, resilience, and sense of self as they embark on their journey**.

Being part of a student's growth and witnessing them succeed as they travel through school is so fulfilling.

The college is truly **welcoming**, where **collaboration** across departments is easy. My colleagues and the senior leadership team are approachable and always **willing to help**. It's incredibly **rewarding** to leave work knowing that I've helped a once-shy student settle in, make friends and **embrace new experiences**.

To continue, return to the contents page by clicking the home icon below.

[Hear from our staff](#)



Wellbeing for our team

[FIND OUT MORE ABOUT
JASPER, OUR WELLBEING DOG](#)



Opportunity to share feedback
with leadership team



Devised marking policy to help
manage workload



Increased department time and
personalised CPD programme



Wellbeing time with option to
leave early every fortnight



Assistance programme with
mental health first aiders



Dedicated behaviour team and
wellbeing committee

[Wellbeing & Employee Benefits](#)



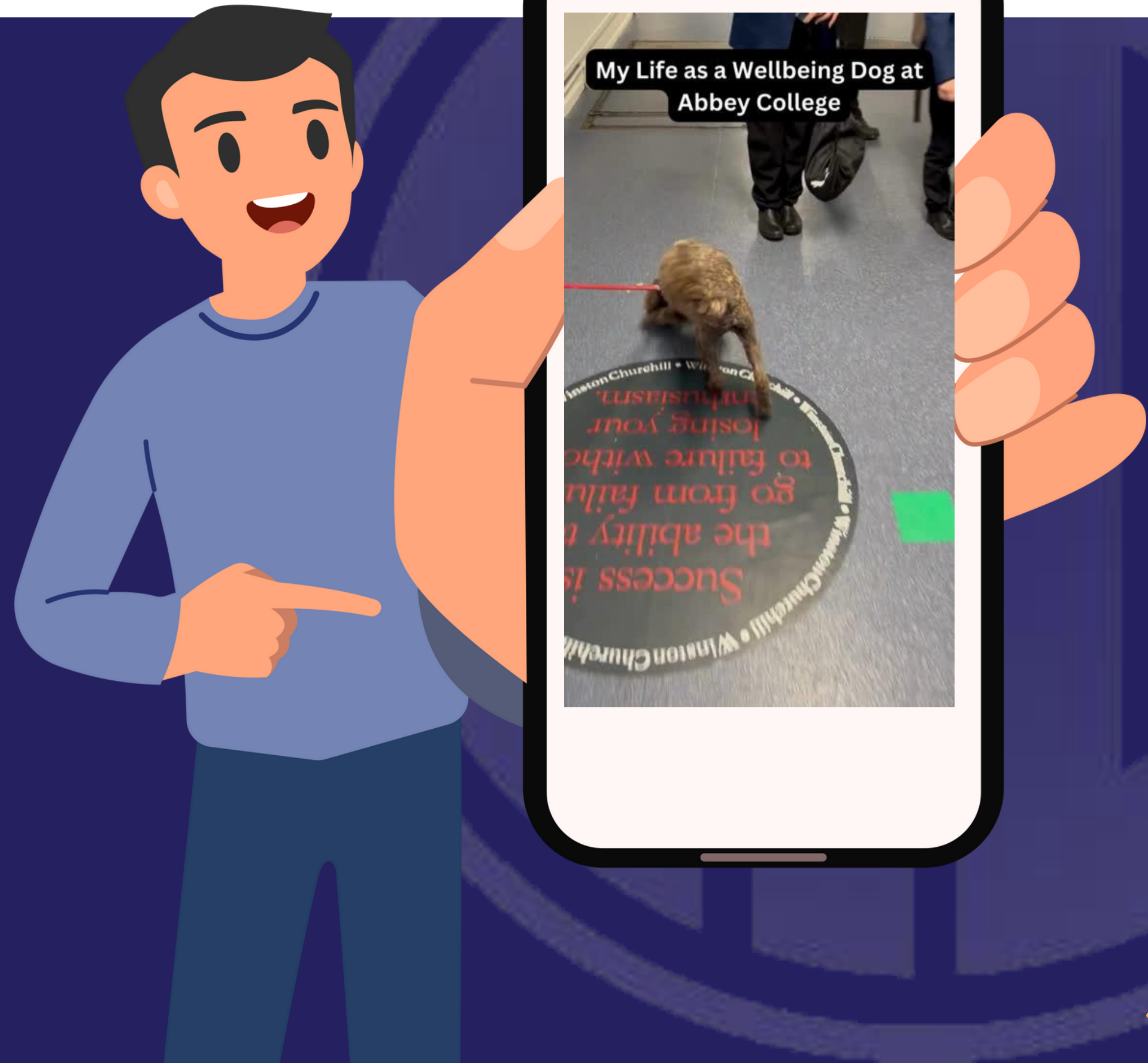
Wellbeing for the whole school

Jasper, our wellbeing dog is a dedicated member of our welfare team.

He shows how our school encourages a positive and supportive environment in a few ways.

**CHECK OUT A DAY IN THE
LIFE OF JASPER, OUR
WELLBEING DOG...**

[Wellbeing & Employee Benefits](#)



Empowering the next generation of educators

Our Train to Teach scheme

Our school is committed to nurturing talent.

We are proud to work with a number of local training providers such as **The Cambridge Partnership, The University of Bedford and the Active Learning Trust** which are all designed to equip aspiring teachers with the necessary skills and knowledge to flourish in a rewarding and challenging career.

Train to Teach



Experience excellence firsthand

Visit us...



CALL US:

01487 812352



EMAIL US:

office@abbey.college



LOCATION:

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