

Teacher - Secondary School - Physics with Science

Physics with science teachers prepare and give lessons in a range of topics relating to the laws of physics. These include subjects that are important in modern life - energy (including nuclear and wind power), transport (ranging from mechanics to car alarms and GPS), and domestic equipment (such as televisions and mobile phones). They work to guidelines set up by the Curriculum for Excellence and prepare pupils, aged 11 to 18, for national exams.

The Work

You could be:

- using a variety of teaching techniques such as whole class lessons, demonstrations, practical work and experiments
- using a range of materials including text books, worksheets, computers, interactive whiteboards and scientific equipment
- organising and directing the whole class and helping individual pupils as required
- setting assignments, projects, tests and exams, preparing and carrying out continuous assessment, marking pupils' work and writing reports
- keeping good order in the classroom and dealing with discipline issues
- doing administrative work which includes keeping a register of pupils
- preparing for and attending parent-teacher meetings and staff meetings
- sometimes supervising out of hours activities such as visits or social events.

Pay

Teachers in Scotland are paid on a national salary scale. The starting annual salary for a probationer teacher is £33,594 (August 2024).

If you do your probationary period on the Teacher Induction Scheme, and are prepared to work anywhere in Scotland during that probationary year, you can also apply for the Preference Waiver Payment. For secondary school teachers, the payment is £8,000 before tax and national insurance.

After your probationary year, your salary will increase to £40,305 and increase an increment each year up to £50,589.

Where a teacher is employed in a remote school on a distant island both the remote schools allowance and the distant islands allowance are paid, in addition to the teacher's normal salary.

Lead teachers earn between £57,429 and £81,579.

A principal teacher earns between £55,155 and £71,181 a year, while the scale for depute head teachers and head teachers ranges from £62,556 to £115,539 a year, depending on the size of school.

Salaries in independent schools may differ slightly.

Conditions

- You would work in a classroom or laboratory.
- Your working hours are based on a 35-hour week, working in a classroom 9.00am to 3.30pm or 4.00pm. You would use the rest of the time for preparation and marking.
- You may have to do some preparation and assessment work at home, in the evenings or at weekends.
- You would have 13 weeks holiday each year, but would probably use some of this time to prepare the next term's work.
- You would have to prepare for and attend parent-teacher meetings, which are usually in the evening.
- You should be aware that teaching is a mentally and physically demanding job.

Getting In

To become a secondary school teacher of physics, you must have a degree (SCQF Level 9-10) in physics plus a Professional Graduate Diploma (SCQF Level 11) in Education (PGDE) OR the BSc Hons in Physics with Teaching from the University of Strathclyde OR the BSc in Physics with Education from the University of the West of Scotland (UWS) (SCQF Level 10).

Your degree

- For entry to a degree course you normally need 4-5 Highers, usually including Maths and Physics.
- You must also have Higher English.
- For the degree in Physics with Teaching at the University of Strathclyde, you need 4 or 5 Highers at AABB or ABBBB including English at C plus Maths and Physics at B. Widening Access grades are BBBB including English at C and Maths and Physics at B. Advanced Higher Maths and Physics is preferred.
- For the degree in Physics with Education at the UWS, you need 4 Highers at BBCB including English, Maths and Physics, or Maths at B plus National 5 Physics. Widening Access grades are BBCC including English, Maths and Physics or Maths at B plus National 5 Physics at B. You also need National 5 English.
- The University of Stirling also offers the BA (Hons) Professional Education (Secondary, Chemistry or Physics) course which is delivered jointly with Forth Valley College. For entry you need 2 Highers at CC including English and a science subject plus 3 subjects at National 5 including Maths and 2 science subjects.
- Your degree should include 80 credit points in the subject you wish to teach. 40 of these credit points must be at Scottish Credit and Qualification Framework (SCQF) Level 8 (second year undergraduate level) or above.

PGDE

- For entry to PGDE, you need an approved degree and Higher English plus Maths at National 5. National 5 Applications of Maths is accepted in place of Maths.
- Aberdeen, Dundee, Edinburgh, Edinburgh Napier, Glasgow, Strathclyde, the Highlands and Islands (at a number of colleges) and West of Scotland (UWS) universities offer the PGDE in Physics with Science.
- There is a lot of competition for places in these courses. It helps if you have experience of working with children or young people.
- For PGDE courses, apply through UCAS.

Alternative Routes

- There are a number of new teacher training programmes available, most linked to local authorities. See [Teach in Scotland](#) for full details and to see which subjects are covered.

You will require a satisfactory criminal record check from Disclosure Scotland to show that you are suitable for this type of work. Contact [Disclosure Scotland](#) for details on the type you would need.

Newly qualified teachers who want to teach in local council schools must complete a probationary period to demonstrate that they meet the Standard for Full Registration of the General Teaching Council for Scotland (GTC Scotland). Those who wish to teach in independent schools may also require to be registered.

You are guaranteed a teaching post with a Scottish local authority for a full school year to complete this probationary period.

What Does It Take

You need to have:

- an interest in child development and an understanding of how children learn
- patience and adaptability
- enthusiasm and energy
- confidence
- a firm and assertive approach when necessary
- good organisational skills
- a sense of humour and positive outlook.

You need to be able to:

- hold the attention of pupils of all abilities and encourage them
- work on your own and as part of a team
- stay calm under pressure
- get on well with other staff, parents and carers.

Training

- You will do in-service training (often provided by local councils) throughout your teaching career.
- You might also take part time courses in specialist aspects of education, run by universities.

Getting On

- You may be promoted to be a principal teacher or head of department.
- You may then become a depute head teacher and then a head teacher.
- You might move into related work such as learning support teaching, further education lecturing, advisory work, education authority administration or schools inspection.

More Information

Most teachers work in local authority schools but there are also jobs in independent schools, British schools abroad, such as schools for the children of British armed services and in private tuition.

Job vacancies are normally advertised on local authority websites or look on the myjobscotland website.

Contacts

Education Scotland

Tel: 0131 244 4330
Email: enquiries@educationscotland.gov.scot
Website: education.gov.scot
X: [@EducationScot](https://twitter.com/EducationScot)

General Teaching Council for Scotland (GTC Scotland)

Tel: 0131 314 6000
Email: gtcs@gtcs.org.uk
Website: www.gtcs.org.uk
X: [@gtcs](https://twitter.com/gtcs)

Teach in Scotland

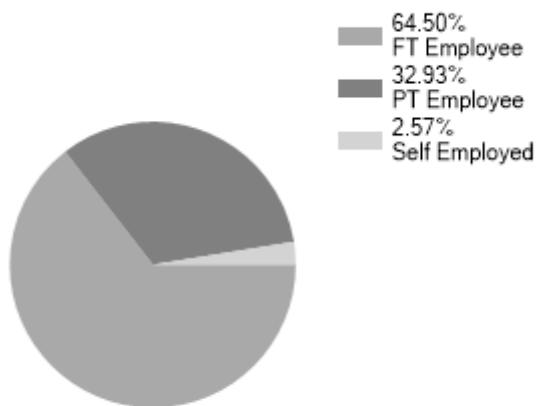
Tel: 0845 345 4745
Email: teachinscotland@gtcs.org.uk
Website: teachinscotland.scot

University and Colleges Admissions Service (UCAS)

Tel: 0371 468 0 468
Website: www.ucas.com
Website (2): www.ucas.com/postgraduate/teacher-training/train-teach-scotland
X: [@ucas_online](https://twitter.com/ucas_online)
Facebook: www.facebook.com/ucasonline

Statistics

Employment Status UK %

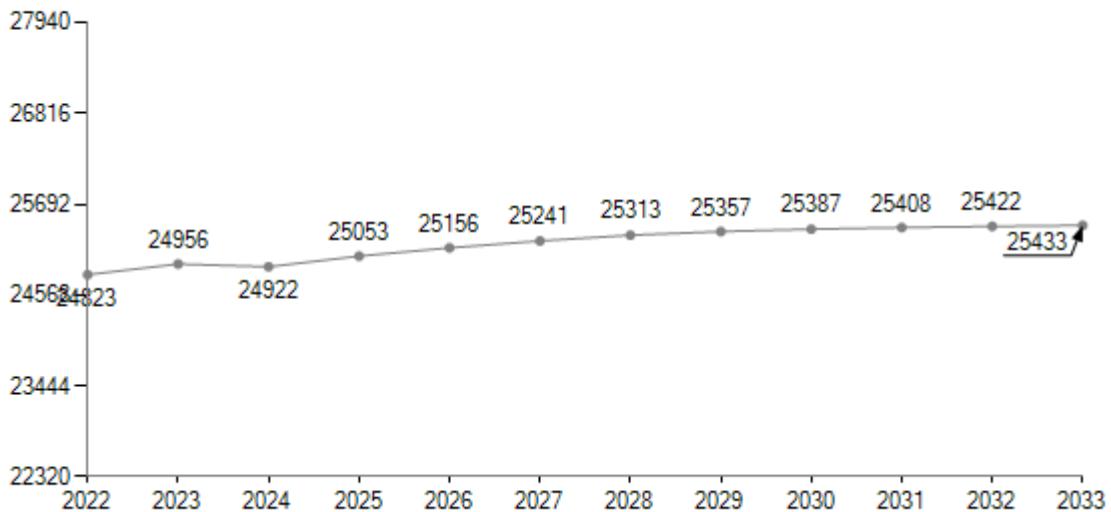


Past Unemployment - Scotland

No Claimant statistics available for Scotland.

LMI data powered by [LMI for All](#)

Predicted Employment in Scotland



LMI data powered by [Lightcast](#)