	and investors to the UK's research and innovation offering
7.	Support subjectspecificprofessional development for science teachers.
1.	Create a 'digital shop window' for UK R&D investment that guides domestic and international researchers, innovators and investors to the UK's research and innovation offering.
	The Science Minister recently acknowledged the need for transparency in research funding to ensure that R&D investment drives prosperity across all UK regions. Transparency in research fundinglsamelp toleverage private investment into the UK.
and 2	The government should create a 'digital shop window' for R&D investment that clearly sets outwallable funding streams and grants, their purpose and source budgets. In 3(e)-11 (.3 (l6)]Ti (a)3 (w1 (t)1d0o (e)5.9 in the UK was by foreign wned busine QR temables train the next generation of researchers and preneurs, to fund cutting-edge infrastructure and earlystage, risky or disruptive research. Between 2010 2017, QR funding has seen a real terms decline of 13% rder to appreciably revese this decline, QR needs to increase by at least 13%.

3.	Ensure that supports th	the	Shared	Prosperity	Fund	(UKSPF)

7. Support subject-specific professional development for science teachers.

Every child should have an unbroken chain of experts teaching them the throughout their school education. Current teacher shortages in some subjects, including chemistry, make it unlikely that this aim will be met through increased recruitment aloneso supporting the existing teaching workforce is key. There is a widespread practice of science teachers being deployed outside their specialist science discipline. Furthermore, regional inequalities exist in the system: schools in the most deprived areas are less likely to have science teachers with a qualification relevant to the main science discipline they teach.

Initial Teacher Training (ITT) is just the start of a teacher's journe become an expert practioner, and teachersacross the UK must be supported to develop and expand their knowledge throughout their careers This should include:

- a) Investing in a coherent programme of subjectspecific training and development for all teachers, throughout their careers. It should meet the needs of a broad range of teachers, including those teaching beyond their original area of disciplinary expertise.
- b) Developing and implementing a system for quality-assuring teachers' CPD and preervice Subject Knowledge Enhancement coursesTeachers and school leaders need an efficient way of assessing which pre-ITT and inservice CPD options will be most likely to improve student outcomes.
- c) Developing a system to collect and record information about teachers' subjectspecific expertise. The tracking of teachers' subject expertise by the system ent, (including that which is gained through in service CPD) would allow for the planning and coordinatiof teacher development and recruitment initiatives at a national and local level. We advocate the formation of a digital "badging" system as a standard way for teachers' disciplinary expertise to be recognised and recorded.

Contact

Wewould be happy to discuss any of the issues raised in more detail; please contact Phoebe Rountare outreep@rsc.org

About us

With about 50,000 members in 120 countries and a knowledge business that spans the globe, the Royal Society of Chemistry the UK's professional body for chemical scientists, supporting and representing our members and bringing together chemical scientists from all over the world. Our members include those working in large multinational companies and students in universities, teachers and regulators.