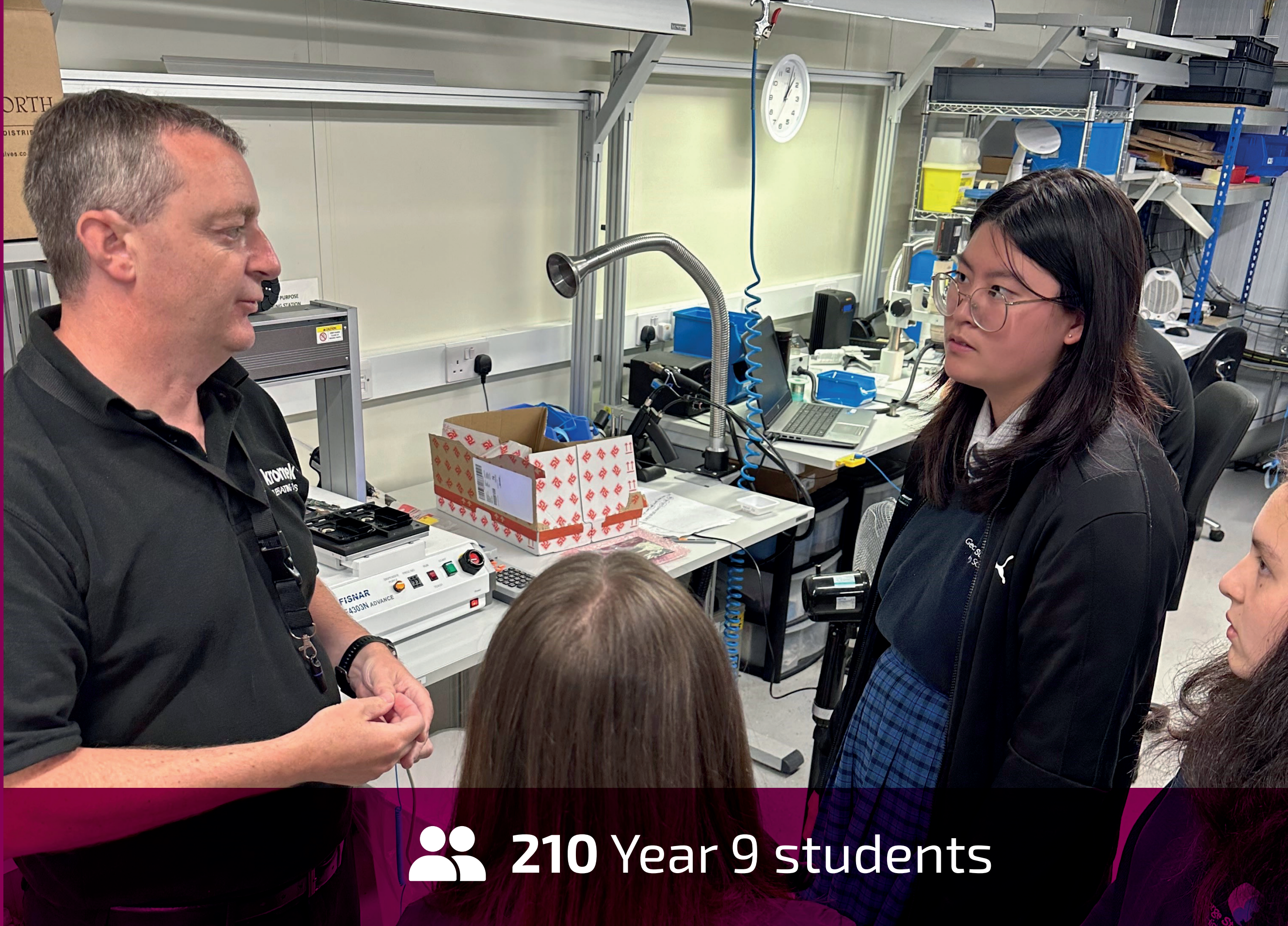


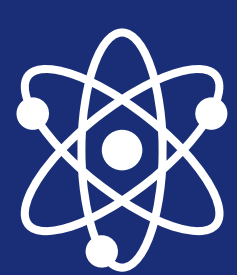
Atomic structure

Radioactivity

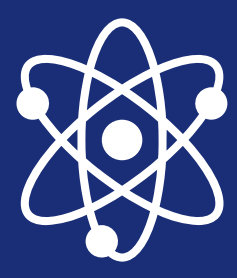


 210 Year 9 students

Objectives



Increase student's science capital through engagement with employers



Students learn types and properties of radioactive emission, through authentic applications



Students develop knowledge of the properties of alpha, beta particles and gamma-rays limited to their penetration through materials, their range in air and ionising power



Students should be able to apply their knowledge to the uses of radiation and evaluate the best sources of radiation to use in a given situation

Learning activity

Virtual introduction with Kromek

Virtual encounter with employees at Kromek to enable students to become familiar with partners and learn about their personal career journey

In school interactive session with Kromek and NHS

Demonstrating applications of radioactivity as well as career opportunities and pathways within partner organisations

Kromek company challenge launched with students

Design a deployment plan for radiation detectors at the 2023 Eurovision Song Contest to keep people safe

Company challenge

Students apply learning from science lessons, resources and sessions delivered by Kromek and the NHS

Pitch solutions

Students pitch their deployment plan designs to Kromek and receive feedback and opportunities to develop learning further

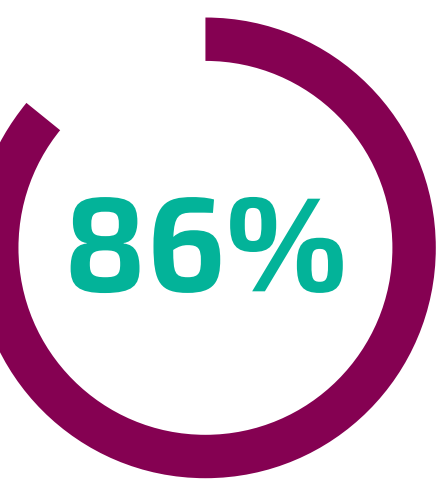
Visit to Kromek

Opportunity to meet employees and experience the workplace

Outcomes



of students felt they learnt about new roles in STEM



of students felt they can link their learning in science (radioactivity) to the work of the NHS



of students felt that working with Kromek has helped them to understand the importance of science in the world of work

Feedback

"All of the classes were so attentive and engaged it was really nice to see. It was so nice to see some of the students who approached us at the end of the sessions to talk about what subjects they were doing and asking for advice, there were some great personalities coming through."

Kromek

"Thank you so much for all of your efforts in coming to deliver the sessions and engage our learners in such a fascinating and current career path. The Year 9 cohort were so engaged and we have lots of interest in the challenge as it launches today. There is a real buzz in classrooms about the visit."

George Stephenson High School

"Before this project, I had never thought about a company making this type of equipment or someone having a job like this (Kromek) and being able to travel the world as part of their job, it sounds really cool."

Student