

# FUTURE SCIENTISTS



This programme has been developed to allow young scientists to acquire the knowledge and skills required to gain a competitive advantage when applying to science courses at prestigious universities. Universities such as Oxford, Cambridge and the Russell Group actively seek students who can demonstrate higher-level skills that go beyond the specification. This programme provides students with the opportunity to develop these skills and qualities prior to application and interview, allowing them the best possible chance of furthering their scientific career.

Many students will embark on this programme of study because of their fascination and love of science. Whilst the programme aims to develop this further, it will also show students the vast future employment opportunities open to science graduates. The programme will support students to complete their own unique research project, developing practical techniques and gaining employability skills.

### Who should follow the Future Scientists Programme?

To access this elective, you will need to be studying at least one of Biology, Chemistry and Physics.

### What activities can you expect to experience?

- Completion of an individual, practically based research project, which will be submitted for Crest Gold Award and entered into the National Science Competition at a Big Bang local event
- Develop practical laboratory skills, design methods of operation, refine and evaluate your own data
- Presentation of your project work both within College and to the wider community.
- Participation in team science competitions
- Specialist guidance and support in preparing for university and employment
- Visits to local Universities and participation in practical activities
- Visiting speakers covering all of the major science disciplines
- Supported activities to ensure successful application for Nuffield Research Projects

### You will develop the following employability skills:

- Ability to communicate orally at a high level
- Perseverance
- Team work
- How to critically evaluate
- Independent working
- Invention and creativity

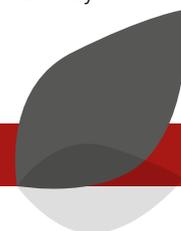
### What about Trips and Visits

#### Scheduled trips for 2016-17:

- Visit and tour of facilities at the Institute of Biotechnology in Manchester
- MOSI and University of Manchester Museum
- Practical workshops at the University of Salford
- Lectures at both University of Liverpool and the University of Manchester
- Two day trip to the University of Newcastle, with an overnight stay
- Opportunities to participate in overseas trips to either CERN or Iceland
- Additional trips will be arranged in response to student project work

### What will this elective lead to after SJR?

All of the skills and knowledge gained from the programme will support students in their application to study a science related degree courses at university. The Science department has an excellent record of student progression to Higher Education and last year our students entered University to study courses such as: Biological Sciences, Chemistry, Physics, Biochemistry, Marine Biology, Veterinary Science, Conservation Science, Environmental Science, Forensic Science, Medical Chemistry, Nuclear Medicine, Optometry, Physical Sciences, Astrophysics, Neurobiology, and Microbiology. Alternatively students can apply for a Higher Apprenticeship secure in the knowledge that they have the skills and abilities to succeed in the workplace.





St John Rigby College

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