

Learning science from the cutting edge.

Tapton
SCHOOL





Aspire to **lead** our Science department like one in a University.



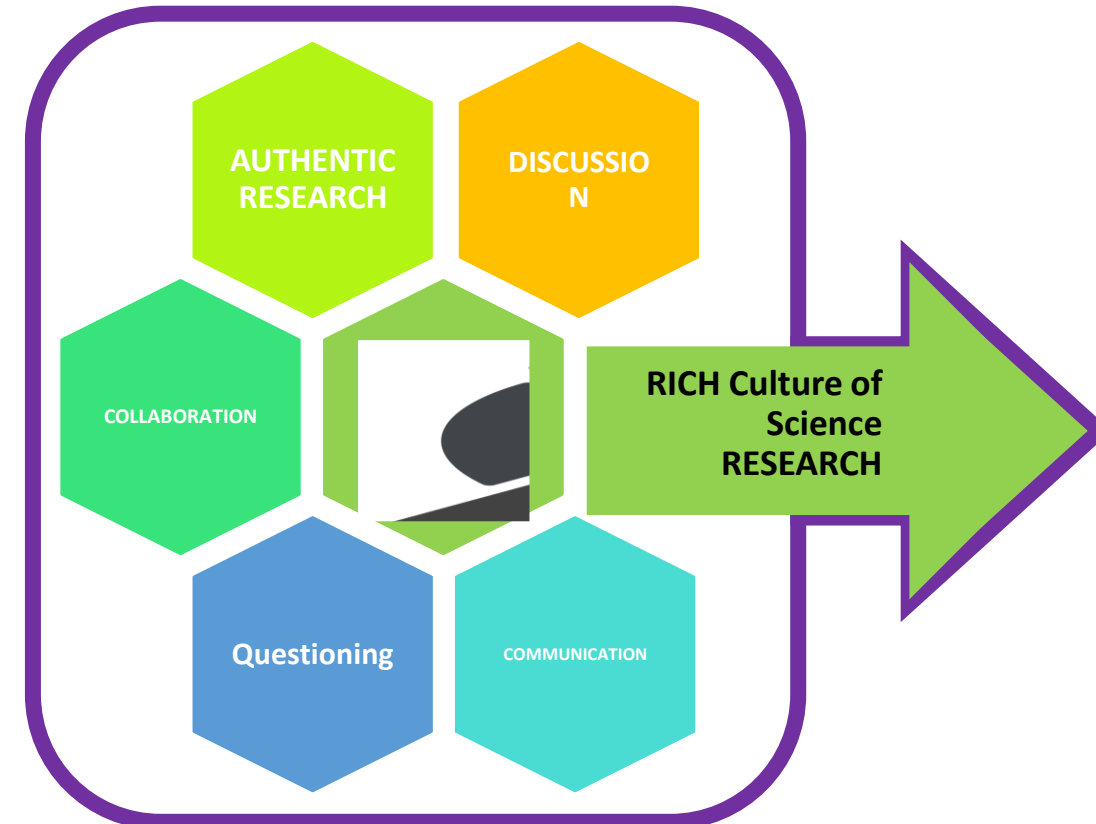
The
University
Of
Sheffield.

Understanding ourselves, our world and its place in the universe. Outstanding teaching and research across the fields of biology, chemistry, physics, mathematics and psychology.



What does this
look like

?



Authentic Research- *Real Science - Real Scientists*



- **Motor Neuron Disease**

Using molecular biology techniques and genetic engineering to identifying new therapeutic targets for MND.

- **Genome Decoders**

Annotating the Human Whipworm Genome, for publication in 2021. Relieving the plight of intestinal parasites

- **James Webb Telescope**

Analysing star Infra red Spectra to find interesting target stars for the James Webb Telescope

- **Discovering New Antibiotics**

A collaborative venture with Primary schools to identify new antibiotics. 6th formers will be sequencing and annotating genomes of new microbial species for publication

- **MELT**

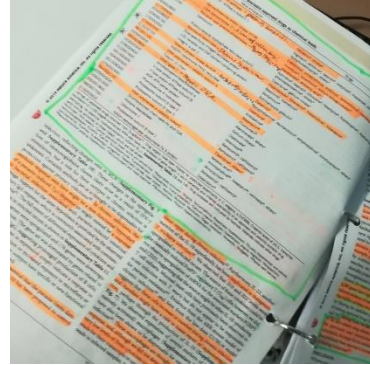
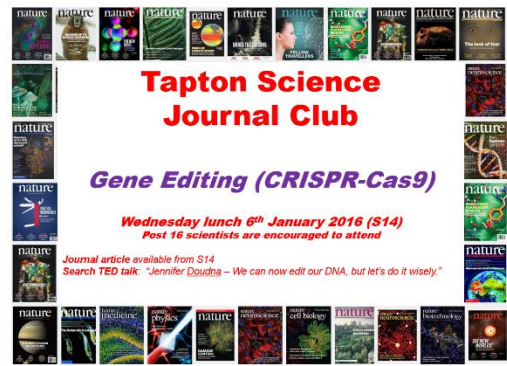
Using Satellite data to monitor the melting of glaciers.

- **EES**

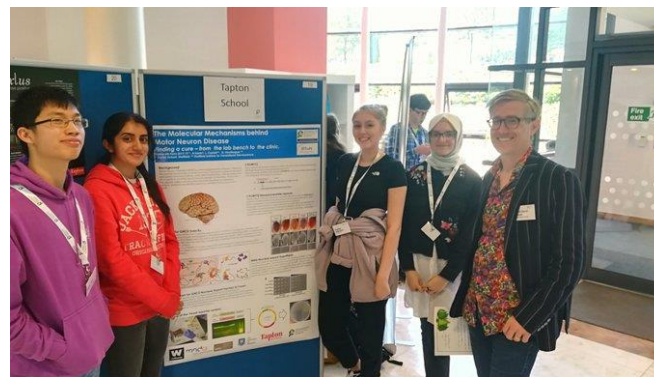
Collaborating with ARM to develop applications for the ARM chip

- **AMR –Discovering Antibiotics – publication 2019**

Discussion - Journal Club



Communication -Conferences



Tapton SCHOOL Science EXPO

21st March 2019 3:45-5:00



Learning at the Cutting edge!

British
Science
Week
2019



THE INSTITUTE
for RESEARCH
in Schools
Northern Hub School

Fields of Learning
Clarity | Simplicity | Impact

Communication

SCIENCE SEMINAR SERIES,
Tuesday 3:30 New Hall



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THE INSTITUTE
for RESEARCH
in Schools



DATE	Speaker	University Department	Talk Title
10-Sep	Angela Ibler	Biomedical Sciences	From lab bench to patient - How does fundamental research help us solve real world problems
24-Sep	Claire Corkhill	Materials Science and Engineering	The Materials Science of a Nuclear Meltdown
08-Oct	Huda Dasuki	Chemistry	Replicating nature's wonders in flasks
22-Oct	Dan Hind	School of Health and Related Research	Randomised Controlled Trials: why we have them; how they're different in the public and private sectors; different careers in trials.
05-Nov	Eugene McCloskey	Oncology & Metabolism	What does a Hollywood Blockbuster have to do with bone health? Life imitating art?
19-Nov	Jessica Wright	SCHARR	The Journeying Through Dementia Trial: Design, Implementation and Results
03-Dec	Ian Robert Wilkinson	Oncology & Metabolism	TBC
17-Dec	Daniel Blackburn	Neuroscience	computerised assessment of language to measure cognitive function
14-Jan	Katherine Fish	Civil and Structural Engineering	The Journey to Safe Drinking Water (or Life at the Wall?)
28-Jan	Alison Wright	Animal and Plant Sciences	Evolution of males and females
04-Feb	Phil Elks	Infection Immunity and Cardiovascular Disease	Can white blood cells hold their breath? Using hypoxia to treat tuberculosis.
25-Feb	Roger Lewis	Mechanical Engineering	Getting to Grips with Friction
10-Mar	Leila Abbas	Biomedical Science	Stem cells - a potential therapy for hearing loss?