



JOHN MONASH
SCIENCE SCHOOL



REGIONAL SCIENCE EXCHANGE PROGRAM

An immersion block for regional and rural Victorian Year 10 students with a passion for science, mathematics and technology.

<https://www.regionalscienceexchange.com.au/>

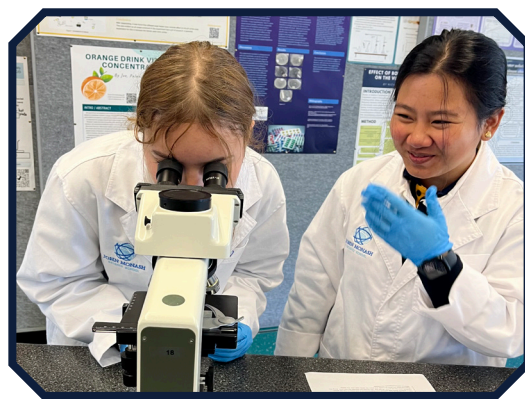
REGIONAL SCIENCE EXCHANGE PROGRAM

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WHAT IS THE REX PROGRAM?

Talented year 10 students from across regional Victoria with a passion for science are invited to attend John Monash Science School for our 2-week Regional Science Exchange (REx).



John Monash Science School is Victoria's first specialist secondary school focussed on science, mathematics and associated technologies. The curriculum at JMSS challenges students to explore cutting-edge scientific knowledge in an immersive teaching and learning environment and is located within the grounds of Monash University.

JMSS works in partnership with various faculties of the university to develop curriculum, and provide workshops and career directions for JMSS students.

As part of the program, students will select two Emerging Science Electives from those on offer, and participate in the JMSS Year 10 program with their fellow students.

They will also have the opportunity to experience the unique learning environment offered through co-location with Monash University and benefit from working with a large group of keen scientifically-minded students, as well as inclusion in School Houses with Staff Mentors.

Students will also have the opportunity to explore Melbourne's diverse cultural landscape through curated excursions - including tours of Melbourne CBD and attending the AFL at the MCG.

Interested?



Hear from previous Exchange Students
www.youtube.com/user/JMSSMelbourne



Register your interest in participating in the
next Regional Science Exchange Program:
www.regionalsciencexchange.com.au

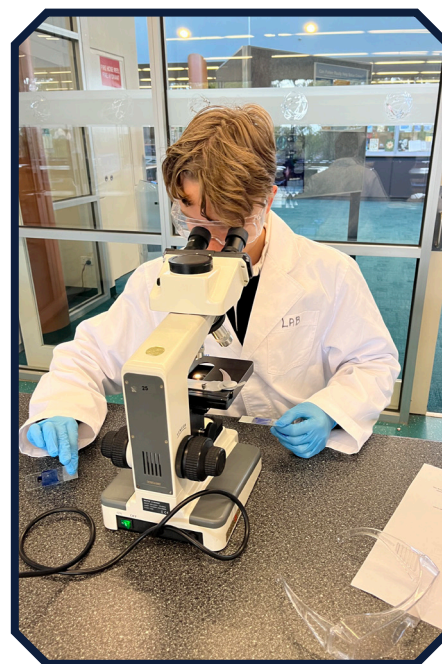


APPLICATION PROCESS - STUDENTS

The REx Program is open to all regional Year 10 students who have talent, interest, curiosity and enthusiasm in the areas of Science, Mathematics and/or Technology. Students wishing to participate must submit an application, together with a reference from their teacher.

In their application, students must:

- ☐ Describe their interests in and passion for STEM,
- ☐ Be able to critically discuss their strengths and weaknesses,
- ☐ and how the REx program would benefit them (including how they plan use the skills developed during REx in their home school and home town),
- ☐ Discuss how REx might impact their future subject or career choices,
- ☐ Demonstrate why they would be an asset to the program,
- ☐ and why they feel they are the ideal REx Exchange Candidate



APPLICATION PROCESS - TEACHERS

The program is open to Year 10 students with a passion for STEM from Regional Schools across Victoria however, due to school capacity we cannot offer places to all applicants.

We therefore request that teachers submit one page character references for each student applicant to assist our selection process*. These teacher references must include the



- ☐ A brief summary of the student's academic performance over the period Year 7-9 with particular reference to STEM capabilities
- ☐ The student's potential growth from participation in the REx program
- ☐ The potential value that the REx program may bring to your School
- ☐ A brief discussion of the student's character, including;
 - Their teamwork and communication skills
 - Interactions with other students both inside and outside their friend groups
 - Behavior and participation in class
 - Participation in extra curricular activities

**Due to the increase in applications recieved, teachers providing reference for multiple students are asked to provide an order of preference list for their applicants to aid our shortlisting process.*



APPLICATION

PROCESS - TIMELINE*

**All dates to be confirmed*



Students will apply directly to the REx Program, with their schools knowledge and with a reference from their teacher.

To provide as many Schools with the benefits of the program, we aim to create REx cohorts consisting of as many different Schools as possible, whilst maintaining the quality of the applicants selected.

// APPLICATION

Applications for the upcoming REx program will be opened in Week 2 of Term One.

// SUBMISSIONS

Students must submit applications to JMSS before the closing date
(one month after applications open).

// NOTICE

Applicants will be notified by email of their acceptance or otherwise one week after the closing date.

// EXCHANGE

Students will attend JMSS for a 2-week block:

Typically Term 2: Weeks 2 and 3



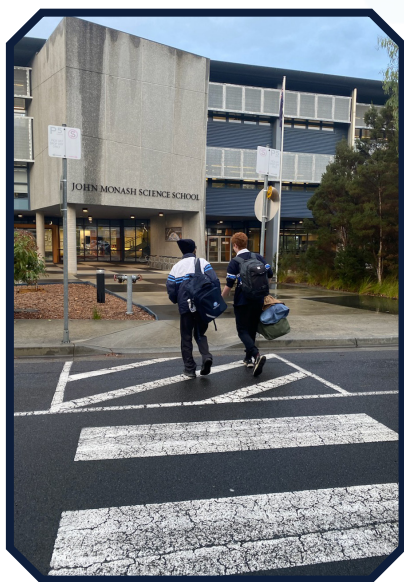
ENROLMENT PROCESS FOR SUCESSFUL APPLICANTS

Program Cost

As REx is covered by the Department of Education, it is FREE to all students accepted into the program.

JMSS will cover school-related costs such as excursions and activities, as well as a JMSS rugby jumper. REx students will also have access to academic/careers support, counselling and pastoral care.

Students will only need to finance their transport to and from Metro Melbourne and spending money for the trip.



Accommodation arrangements

Students will be paired with a JMSS Buddy to assist with day to day activities.

This year students will be hosted Quest Serviced Apartments Notting Hill close to the JMSS Campus. Students will be sharing rooms with other REx participants of the same gender, similar to typical school camp arrangements. JMSS staff members will be onsite for the duration of the stay to ensure the wellbeing and safety of the students.

A Welcome Lunch for parents, students and JMSS Buddies will be held at JMSS on the first Sunday of the Exchange.



ENROLMENT PROCESS FOR SUCCESSFUL APPLICANTS

Becoming a JMSS Year 10 Student

Parents of all accepted applicants will be required to submit a temporary enrolment form for their child with details pertaining to their health and wellbeing. This will include parental contact details, emergency contacts, health and dietary requirements, special needs or concerns, etc.

Successful students will also need to submit a subject preference form which will be used to create their timetable for the program (this will include their chosen electives and where possible, any VCE subjects), and also a getting to know you form which will be shared with their JMSS Buddy before the program start date to allow students to get to know one another.

What to Bring

- ☐ As JMSS is a bring your own device (BYOD) environment, students are encouraged bring two devices such as laptop/iPad/tablet/ smartphone for daily use as part of lessons.
- ☐ Any medications or study aids required
- ☐ Money for the School canteen, snacks, or gifts and souvenirs from excursions
- ☐ Weather appropriate clothes and footwear (appropriate for excursions to the city)
- ☐ Stationary that you feel is necessary for adequate notetaking
- ☐ A mobile phone for emergency contact on excursions
- ☐ A can do attitude and a willingness to learn!



THE EXCHANGE

DAY TO DAY LIFE AT JMSS

Year 10 Curriculum

All students will enrol in our Year 10 curriculum and will be able to continue their studies in core subjects like English and Mathematics while at JMSS.

JMSS also offers a range of *VCE units which may be accommodated where possible.*

Students work in both single and double classes with team teaching, and can benefit from sharing information and discussion with up to 50 peers.

REx students will also enrol in two of JMSS's Enrichment Science electives. These studies are only available at JMSS and have been co-constructed with assistance from Monash University Academics.

Students will be able to nominate their preferences from subjects such as:

Analytical and Spectroscopic Science
Astrophysics
Aquatic Fieldwork Science
Biotechnology
Diseases, Disorders, and Scientific Discovery
Future Low Energy Electronics Technology (FLEET) Science
Introduction to Games Programming and Data Science
Materials Science and Engineering
Medical Physics
Microbiology
Nature and Beauty of Mathematics
Pharmaceutical Science
Programming for Simulation and Machine Learning
Terraforming Mars



THE EXCHANGE

EXCURSIONS, EVENTS, & EXPERIMENTS

While here, students will take part in a range of excursions, events, and an “Extended Experimental Investigation” (EEI).

EEI Project and Presentation

At the end of the program, all students will be required to present the results of their EEI research to their Home Schools in our Emerging Science Victoria (ESV) Studio in **The John Monash Science School REx Virtual EEI Symposium**.



These EEI presentations will get students to begin thinking like real scientists, sharing things such as:

- Their scientific goals and aims
- Defining and explaining key terms and concepts
- Outlining the related theory
- Examining why this research is important
- Describing the methodology in a clear and concise manner
- Interpreting results and discussing how they met their goals and aims

REx Excursions

They will also attend several events and excursions:

- At Monash Uni REx students will take part in experiments run by various researchers within the Physics, Chemistry and/or Biology Departments
- The CBD trips may include a trip to the AFL at the MCG, or a mystery City tour hosted by our Assistant Principal (and CBD Expert) Mr Chisholm!
- There will also be a series of catered/uncatered events including a REx Welcome Lunch, Orientation Day and Pizza Lunch, Monash Campus Lunch and Tour, and a Farewell Lunch.



TESTIMONIALS FROM PAST STUDENTS

"THE ELECTIVE CLASSES ARE MY FAVOURITE PART ABOUT THIS EXCHANGE, THE CONTENT IS VERY INTERESTING" - DYLAN



"I ENJOY THE DOUBLE CLASSES AND HOW EVERYONE IS COMMITTED TO LEARNING AND DOING THEIR OWN WORK. THERE IS ALSO NO DISTRACTIONS WHICH IS GOOD"
- KATHERINE

"THE ELECTIVE CLASSES I AM ENROLLED IN ARE EXTREMELY INTERESTING AND NEVER FAIL TO ENGAGE ME. THE CONTENT OF THE LESSONS VARY WIDELY BUT OVERALL ARE INTERESTING AND LINK TO A GOOD OVERALL EDUCATION PATH.



"EEI IS INTERESTING SINCE WE WOULD NEVER HAVE THE OPPORTUNITY TO DO IT AT MY SCHOOL AT HOME"
- KEELEY



TESTIMONIALS FROM PAST STUDENTS

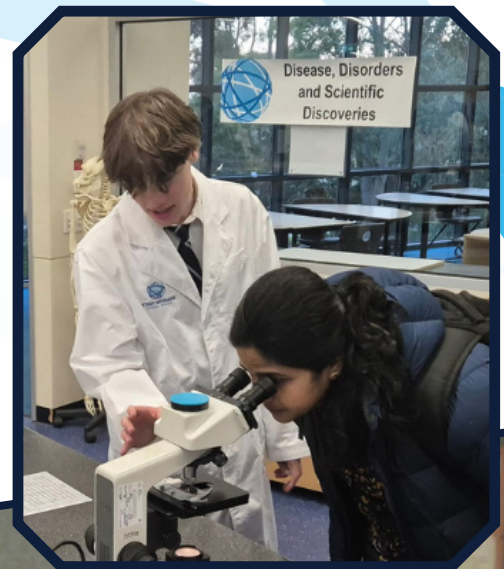
"I WOULD RECOMMEND THE PROGRAM FOR STUDENTS WHO HAS THE PASSION FOR SCIENCE AND MATHEMATICS SINCE THE SCHOOL FOCUSES MORE ON THAT TOPICS, YOU WILL LEARN A LOT AND EVEN HAVE ENJOY THE STAY IN THE SCHOOL WITH VERY WELCOMING STUDENTS AND CLASSMATES."



"I LOVED BEING IN A SCHOOL WHERE THE STUDENTS WANT TO LEARN AND THE TEACHERS WANT TO SEE THE BEST FROM THEIR STUDENTS... I WAS ABLE TO BE CHALLENGED AND ASK QUESTIONS. I ALSO LOVED HOW NICE STAFF AND STUDENTS ALIKE WERE TO US... IT MADE ME FEEL WELCOME AT JMSS AND TOOK OUT SOME OF THE NERVES IF STARTING AT JMSS."



"IT'S AN AMAZING EXPERIENCE FOR ANYONE WHO LOVES SCIENCE. THE CLASSES ARE FUN, AND THE OTHER STUDENTS ARE REALLY KIND. I LEARNT SO MANY THINGS I WOULDN'T HAVE OTHERWISE"



OTHER OPPORTUNITIES

AT JOHN MONASH SCIENCE SCHOOL

Emerging Sciences Victoria

Join the classroom of *the future!*

Broadcast from a purpose-built studio on the campus of John Monash Science School, Emerging Sciences Victoria (ESV) makes it possible for Year 9 and 10 students to access specialised STEM subjects through a virtual classroom.

ESV delivers a range of subjects each semester and is open to students across the state of Victoria.



Join us to learn about topics such as:

- Alternative Energies
- Astrophysics
- Bioinformatics
- Indigenous Science
- Medical Physics
- Neuroscience
- Nature and Beauty of Mathematics



To learn more, or to enrol in ESV, visit
<https://emsci.vic.edu.au/>





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We look forward to receiving your applications for the REx program.
Good luck to all applicants!



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