







JOHN MONASH
SCIENCE SCHOOL

2027 CO-CURRICULAR PROGRAM

Welcome to Co-Curricular

Discover new interests. Develop new skills. Connect with others.

At John Monash Science School, we believe that learning extends well beyond the classroom. Our Co-Curricular Program (CCR) is an important part of the Year 10 and 11 experience, offering students opportunities to explore their interests, discover new passions, develop practical skills and build meaningful connections with others.

From robotics, engineering and creative arts to sport, leadership, music and community outreach, the program offers a diverse range of experiences that complement academic learning. It is designed to encourage students to step outside their comfort zones, try something new and develop the confidence, creativity and personal capabilities that contribute to lifelong learning and wellbeing.

When and how does Co-Curricular work?

Every Wednesday | 1:30 pm – 3:30 pm

Co-Curricular is a dedicated part of the weekly timetable for students in Years 10 and 11.

The program is organised into blocks throughout the year, with students selecting from a range of activities based on their interests. Programs vary in duration and provide opportunities to explore different experiences across the two years.

Activities are facilitated by JMSS staff, alumni and, in some programs, external specialists, university students and community partners.

The Four Pillars of Learning

The Co-Curricular Program is designed around **UNESCO's Four Pillars of Education**, which recognise that a well-rounded education involves more than academic knowledge alone. Each co-curricular activity is aligned with a pillar that reflects its primary learning focus. Together, these pillars support our commitment to developing the whole person.

Learning to Know – Building knowledge and curiosity
Encourages intellectual curiosity, critical thinking, exploration and a love of learning.

Learning to Do – Developing skills through experience
Focuses on applying knowledge, developing practical skills, solving problems and learning through hands-on experiences.

Learning to Be – Growing as an individual
Supports personal development, self-awareness, creativity, resilience and physical and emotional wellbeing.

Learning to Live Together – Connecting and contributing
Emphasises collaboration, empathy, communication, respect and contributing positively to the community.

Make the most of your Wednesday afternoons!

Co-Curricular is your opportunity to discover something new, connect with different people, take on challenges and enjoy learning in different ways. You might even discover a passion or talent you never knew you had!

Contents PAGE

01 PRIMARY SCHOOL OUTREACH PROGRAM

Little Scientists
Mini Mathematicians
Spike Prime-ARY Robotics

02 STEM & INNOVATION

Minecraft Engineering
LEGO Robotics
Cells to Systems
Aerospace Engineering
Robotics & Emerging Tecnology

03 STRATEGIC THINKING

Chess (Semester 1) & Advanced Chess (Semester 2)
Debating (Semester 1) & Advanced Debating (Semester 2)
Leadership

04 CREATIVE ARTS & DESIGN

Digital Arts
Drawing & Painting
Photography

05 PERFORMING ARTS & EXPRESSION

Bollywood Dance
Music Composition & Songwriting
Theatre Sports & Drama

06 HEALTH & WELLBEING

Monash Sports
Personal Fitness Training
Women's Health

07 CRAFTS & HOBBIES

Knitting & Philosophy
Boardgames & Origami
Reading
Cross-Stitch & Embroidery

PRIMARY OUTREACH PROGRAM

Our school offers a range of activities to promote STEM to primary school students. Our Primary School Outreach initiative is a fantastic opportunity for our JMSS students to develop leadership skills and impart their enthusiasm and knowledge to the next generation.

Little SCIENTISTS

Learning to Live Together

As a Little Scientist Mentor, you will assist in teaching local primary students the basics of science, including exploring the science of flight, everyday chemical reactions, evolution and adaptation, and even teaching them how to create a robotic hand!

These Little Scientist primary students will be invited to develop a project and present it to the wider JMSS community at our Annual Science Fair and Exhibition Night.

Mini MATHEMATICIANS

Learning to Live Together

As a Mini Maths Mentor, you will assist in providing local primary students with the opportunity to explore mathematics and problem-solving like real mathematicians do. You will guide them through hands-on problem-solving games, puzzles, and kinetic challenges (all designed with a healthy dose of mathematics).

Spike Prime-ARY ROBOTICS

Learning to Live Together

This Primary Outreach program uses the LEGO Spike Prime robotics platform to teach coding and problem-solving skills to senior Primary students.

Spike Prime features a drag-and-drop programming language based on Scratch, which can be expanded to include text-based coding in Python.

You will be helping groups of Grade 5 and 6s to develop critical thinking, creativity and collaboration through engaging, playful learning activities.

STEM & INNOVATION

Minecraft ENGINEERING

Learning to Do

Students will learn engineering concepts such as building logic circuits using Redstone in Minecraft, an element in the game which is a fun way to learn and apply real world electrical circuits.

LEGO ROBOTICS

Learning to Do

The Lego Robotics co-curricular prepares students to compete in Lego-based competitions using Lego Mindstorms robots. Students will build, develop, and participate in a range of activities that will challenge their coding and engineering skills.

Cells to SYSTEMS

Learning to Know

This Co-Curricular subject is designed to provide a foundational understanding of human anatomy and physiology. Students will explore the fascinating form and function of the human body, from the structure of cells to its complex tissue systems.

Aerospace ENGINEERING

Learning to Do

This 12-week unit will introduce the fundamental concepts of aerospace engineering. It will include content on aeronautics, astronautics and design. Students will design a vehicle, estimating its performance, weight, and principal characteristics using physics, mathematics, and chemistry.

Robotics & Emerging TECHNOLOGY

Learning to Do

This subject will guide you through the process of building and controlling Arduino-powered devices to perform a series of fun challenges. Throughout this subject, students will work in teams to gain skills in Arduino programming, electrical and mechanical engineering.

STRATEGIC THINKING

CHESS

Learning to Know

In Chess, we will explore the fundamentals and concepts of the game, providing students with a solid foundation for play. At the end of the semester, we will put these skills into practice at the CCR Chess tournament.

Advanced CHESS

Learning to Know

This subject is offered in Semester 2 for students who have already completed the Chess subject or for students who have advanced chess skills.
The emphasis of Advanced Chess will be on deep calculation, strategic foresight, and concrete positional understanding, preparing students for Chess competitions.

DEBATING

Learning to Live Together

The debating program will build student confidence in public speaking and in forming clear arguments. There will be opportunities for a wide range of discussions on current issues and for students to develop their skills in research, argument formation, and thinking on their feet.

Advanced DEBATING

Learning to Live Together

Advanced debating is offered in Semester 2 for students who have already completed the Debating subject, or for students with DAV experience. It moves beyond basic public speaking and simple point-counterpoint exchanges. The emphasis is on strategic, logical, and rhetorical frameworks to control the narrative, dismantle opposition positions, and persuade adjudicators

LEADERSHIP

Learning to Be

Unlock your potential to lead in today's world. Through engaging discussions and interactive activities, you'll explore vital leadership areas such as storytelling, character strengths, emotional intelligence, mental health, and problem-solving. This is your chance to grow into a confident, impactful leader who will continue to make a difference in JMSS and beyond.

CREATIVE ARTS & DESIGN

Digital ARTS

Learning to Do

This subject explores the creation of art using technology. The program begins with a basic tutorial in Adobe Photoshop and then moves on to learning how to combine elements to create original works of art. Students have an opporunity to then showcase their art and present their projects to the class.

Drawing & PAINTING

Learning to Be

Throughout this 12-week program, students will learn various art techniques and combine them to create a unique portfolio to display at the end. They will learn skills such as perspective drawing, 3D rendering and black-and-white lino print.

PHOTOGRAPHY

Learning to Live Together

Across this programme, students will learn essential skills for photography, including camera operations, lighting, editing, and framing. They will also practice soft skills, including working with subjects and in production teams. Through practical and team-based work, students can express themselves creatively and assemble a portfolio of their work.

Bollywood DANCE

Learning to Be

Bollywood will be offered in Semester 2 in the Group Fitness room at Monash Sports. Bollywood dancing is a colourful, dynamic and fun dance style seen in Indian films. It is available to all girls and boys, and no previous experience is required. Bollywood will be run by fun and experienced Bollywood dancers. With no set rules, fitness requirements or gender restrictions, Bollywood dancing is the perfect way to enjoy freedom of expression and connection with others.

Music Composition & SONGWRITING

Learning to Live Together

Students will develop musical works in their favoured composition mediums, from pen and paper to digital workstations and sequencers. Students will create a portfolio of works that can be recorded and performed at the end of the 8-week sequence.

Theatre Sports & DRAMA

Learning to Live Together

This subject will provide opportunities for drama and theatre sports to all students, from beginners to theatre experts. Over the 12 weeks, you will engage with theatre games, develop stage skills and create and perform in theatre.

HEALTH & WELLBEING

Monash SPORTS

Learning to Be

In this class, students will rotate through different sports across the semester, using the Sports facilities at Monash University. These include Volleyball, Netball, Basketball, Badminton, and many others.

Personal Fitness TRAINING

Learning to Do

The Personal Training program provides the expertise and experience to help people of all fitness abilities to improve their health and energy levels, gain muscle and maintain health goals. Drawing on the services of a female personal trainer, this 12-week fitness program will focus on enhancing daily functional movements and strength for long-term wellness. The group program will cater to all genders and ability levels.

Women's HEALTH

Learning to Be

Women's Health is for any female-identifying students interested in connecting and sharing with one another in a safe and supportive environment. The sessions include topics such as identity, nutrition, sleep, periods and relationships. Each session includes a self-care activity and encourages the girls to explore creativity and mindfulness, using those skills to enrich their everyday lives.

Knitting & PHILOSOPHY

Learning to Know

Students learn about the great thinkers, concepts, and underlying theory of philosophy. They discuss texts and engage in philosophical debates. Students also do all of this whilst knitting and crocheting!

Board Games & ORIGAMI

Learning to Know

Take a much-needed break from your studies with Board Games and Origami. An opportunity to relax and have fun with fellow students, make new friends, and, importantly, recharge your "batteries" before your next class. This subject promises a relaxing and entertaining co-curricular activity that is a break from the stress of studying and learning.

READING

Learning to Know

The Reading Group is for students who are looking to develop their personal reading practices and depth of knowledge around reading. Each meeting will begin with an engager activity and focus on a theme for the group. There will be time for discussions and private reading, allowing students to tailor this time to their interests.

Cross-Stitch & EMBROIDERY

Learning to Know

Cross-stitch is a type of embroidery that uses a grid to create an image, much like digital pixel art. Students will have the opportunity to learn about the fibre arts and to practice various embroidery techniques. They will also learn how to transfer patterns and designs, and enhance any fabric they own with hand-sewn designs.