COLLINGWOOD FOOTBALL CLUB
EST 1892

# STEM CUP
## *A Day of STEM Program*

The STEM Cup is the first program released under the Day of STEM platform, powered by LifeJourney®. The STEM Cup program explores career pathways in sports science and data analytics, and culminates with an online maths challenge where the student steps into the role of the Capologist.

The STEM Cup program will explore three unique careers through the following mentors:
- Dominic Milesi, Capologist, Collingwood Football Club
- Sandra Hogan, Data Analytics Specialist, SAS
- Nathan Holland, Internet of Things (IoT) Architect, Cisco

As the Capologist, the participant leverages maths and problem solving to select Collingwood FC's player salaries for the 2017 Season based on individual performance statistics, whilst ensuring that the team's overall salary remains under the AFL salary cap. The challenge runs over five weeks during the AFL Season, from July 18 - August 20, and is open to all Australian students, teachers and fans. Available on the Day of STEM platform starting on 18 July!

STEM Cup winners will be awarded prizes, including a 'Draft Day Experience' at Collingwood FC's Holden Centre with the Collingwood Capologist Mentor and coaching staff during Draft Week.

Teachers may run the STEM Cup in the classroom or as a homework exercise for their students. To learn more about how to run the program in class, please register at www.dayofstem.com.au/STEM-Cup.html

• MATHS • STATISTICS • ANALYTICS • ECONOMICS • FINANCE • DATA SCIENCE •

**PROGRAM ONE**

**DAY OF STEM**
www.dayofstem.com.au

## EXECUTIVE WELCOME INTRO

**Professor John Dewar**
Vice-Chancellor & President
La Trobe University

## Classroom Use

**Target Classes:**
Maths, Statistics, Analytics, Economics, Finance, Data Science

**Skills Experienced:**
Hard Skills: Maths, Data Science, Finance, Economics, Software Tools

Soft Skills: Problem Solving, Risk Management, Decision-making, Grit

**Year Levels:**
Year 8 through University

**Career Pathways:**
Finance, Investment, Sports Analytics, Data Science

**Classroom Usage:**
45 Minute in Classroom Experience + 1 Hour Homework

## Industry Mentors

**Capologist:**
Dominic Milesi

Student self-explores a day in the life of being a Capologist, using her/his hard and soft skills to create a professional football team's roster.

**Data Analytics Specialist:** sas
Sandra Hogan

Data Science uses the skills of mathematics, analysis, and statistics for breaking down "big number" problems into easily understood and implementable solutions.

**IoT Expert:**
Nathan Holland

The internet of things (IoT) is the network of devices embedded with electronics, software, sensors, and network connectivity that collect and exchange data.

## Education Partners

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**Register today at www.dayofstem.com.au/STEM-Cup.html**