



*Spark* your curiosity!  
*Spark* your interest in STEM!  
*Spark* your passion!

Join us for Kilbreda College's **GIRLS IN STEM** Holiday Program.  
Open to all girls in Grades 4, 5 and 6. Friday 12 July from 9.00am - 3.30pm.  
Ten workshops (overleaf) to choose from!

**Kilbreda College**

A Kildare Education Ministries School in the Brigidine Tradition



## The Amazing Race

This workshop will take you to places you have only dreamed of visiting. You will be taken on a race around the world as you solve problems and puzzles from some of the world's most incredible attractions. Prepare to be amazed as you discover the answers to some of the world's greatest mysteries.

**Facilitator: Anne Fairnie**

## Art with Heart

Do you like to get creative? This workshop will test your creative prowess as you design and complete a piece of art with heart. Using your sense of colour you will create an intricate artwork that will capture your imagination. Will your design catch the eye of art critics?

**Facilitator: Grace van Rossen**

## Colourful Chemistry: Exploring Inks and Liquids with Science

In this workshop, you'll become a detective and use science to solve mysteries. You'll learn how to separate colourful inks using paper chromatography, just like a real forensic scientist! Discover what makes each ink unique and find clues to solve a fun mystery. You'll also explore the density of different liquids by creating your own rainbow density column. Get your lab coat and safety goggles on and join us for a hands-on, exciting science adventure!

**Facilitator: Sarah Chuck**

## Constructing Robots with Cubelets

Everything in the universe is made up of tiny building blocks - and robotics is no exception. Inputs and outputs, power and processing... all of these parts make up what we can program. Using Cubelets, we will look at the basics of robotics and how 'physical coding' (the rearranging of parts to change function) can transform a robot. Moving from simple function to more multiple data loops, students will see that there is complexity even in the simplest of building blocks.

**Facilitator: Allen Dickson**

## Kitchen Cooking and Taste Testing

A fun and creative workshop that allows participants to explore a variety of textures and flavours as they work with everyday ingredients to create scientific culinary masterpieces. A blind taste test will have you questioning how your eyes taste and perceive food! In this activity, you will learn about how you can trick your taste buds.

### IMPORTANT

Please indicate any Food Allergies on your registration.

**Facilitator: Christine Vaughn**

## Lift off!

Fly me to the Moon! Would you like to make your own air and water powered bottle rocket and then launch it as high and as far as you can? As part of this workshop you will be given the task of constructing a bottle rocket with a weighted nose cone, fins and attractive design. Can you make it spin? How high will your rocket go?

**Facilitator: Simon Gurowski**

## Lovin' Lego

Be challenged in your creativity through designing and building a project of choice. There will, however, be some extra challenges just to make you think a little harder. You will only have 90 minutes to complete your creation. This will require a great deal of skill, problem solving and thorough planning, all while playing with much loved Lego!

**Facilitator: Clare Kelly**

## Magnify Your World: Journey into the Secret Life of Plants and Microorganisms

Get ready to shrink down to the size of a bug in this awesome workshop! Have you ever wondered what the world looks like to tiny creatures? Using a microscope, you'll explore everyday objects and discover their hidden details, magnified hundreds of times! You'll even conduct an experiment to see how plants move water up to their leaves, just like a real-life scientist. But that's not all - we'll also go on a scavenger hunt around Kilbreda, collecting fascinating living things to examine up close. Put on your lab coat and join us on this exciting adventure into the world of biology!

**Facilitator: Sarah Avitabile**

## Math-athalon

Are you a Mathlete? Join in this Math-athalon and have a blast with numbers and sports! This workshop will flex your brain and your muscles! Dive into exciting activities that combine the thrill of sports with the magic of maths. From scoring points to measuring distances, every game is a chance to learn and have fun. Play basketball, soccer, and more while solving fun maths challenges. Don't miss out on this action-packed adventure where maths meets sports. Time to get in shape!

**Facilitator: Vince Camera**

## Roll-e-good Roller Coasters

Have you ever ridden a roller coaster? Have you ever wanted to design your own? In this workshop you will be challenged to create a roller coaster using simple items. However, getting your 'rider' (marble) to the end is only half the fun. How can you savour the fun and make the roller coaster ride last as long as possible?

**Facilitator: Jane Ward**



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## Important Information and Booking Details

### Fees

\$65 per student.

### How to Book

Enrol via [events.humanitix.com/girls-in-stem-holiday-program-2024](https://events.humanitix.com/girls-in-stem-holiday-program-2024) to secure your daughter's place. Students are to choose three workshops across the three sessions.

### What To Bring

- Lunch and snack (nut free), water bottle.
- Wear appropriate clothing and footwear for playing outside in cold weather.

### Medical Information

If your child has a medical condition, they cannot attend unless medication has been provided, is clearly labelled with your child's name and in the original packaging. Action plans are to be submitted on arrival at the College. A risk minimisation plan is required for all children with anaphylaxis, asthma, diabetes or any other medical condition.

### Important Information

Arrival and registration is from 8.30am in order to commence the program at 9.00am.

Entry is via Gate 4, Como Parade West, Mentone.

The program will finish at 3.30pm, and all children must be collected by this time.

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