



John Paul College

Days of Academic Challenge

10 and 11 July 2018

A fun-filled holiday programme of academic and creative challenges

The **Days of Academic Challenge** workshops include sessions available in creative writing, science, design and history. Our team of John Paul College staff will provide a challenging and stimulating programme for students from Years 4 to 6.

To purchase tickets visit: www.jpc.qld.edu.au/news-events/bookings/



John Paul College
Unity | Christ | Learning

Clean Water for the Future

Tuesday, July 10th 2018

Years 4 to 6 Students

Limited to 12 participants

Session Overview

Clean Water for the Future will challenge students to step into the role of global future problem solvers, developing a solution to the problems of drinking water shortage around the world. Participants will apply their STEM, problem solving and design skills to create a prototype water cleaning device for lab testing and potential use around the world. Prototypes will be judged against criteria established with participants on the day.

Participant Requirements

Workshop participants should:

- have a keen interest in science and learning to work like a scientist
- have developed reading ability to interact with scientific literature
- be able to work safely and follow instructions in a laboratory environment

Workshop participants should bring:

- an inquiring mind
- a positive attitude
- morning tea and lunch

Presenter Details

Clean Water for the Future will be presented by Miss Danielle Hollett. Danielle is JPC's Senior School Curriculum Assistant in Science and teaches 7-10 Science and 11-12 QCAA and IB Biology. She holds a Bachelor of Exercise and Movement Science and a Bachelor of Secondary Education from QUT Kelvin Grove. Danielle is passionate about Science and providing engaging, hands-on learning experiences for students that involve problem solving and future-oriented thinking.

Clean Water for the Future will involve participants working within a lab environment in JPC's recently refurbished Senior School Science Facility in a combination of independent and collaborative modes.

Real Mysteries from History

Tuesday, July 10th 2018

Years 4 to 6 Students

Limited to 12 participants

Session Overview

Real Mysteries from History will challenge participants to become historical investigators, sifting through the available evidence surrounding some of the most confusing and unsolved mysteries in world history and come to their own, evidence-based conclusions about what most likely happened.

Participant Requirements

Workshop participants should:

- have a keen interest in history and investigating evidence
- have developed reading ability to interact with historical sources
- have the ability to weigh evidence and construct theories consistent with evidence

Workshop participants should bring:

- an inquiring mind
- writing materials and a notebook
- morning tea and lunch

Presenter Details

Real Mysteries from History will be presented by Mr Joel Bonomini. Joel is JPC's Gifted Education Facilitator and originally trained as a secondary English and History teacher. Joel is most passionate about providing learning opportunities to gifted children that engage and challenge their capacity for learning and holds a Graduate Certificate in Education (Gifted Education) from UNSW. Joel has a personal passion for history, particularly the process of reconstructing the past through investigation.

Real Mysteries from History will involve participants working within a classroom environment in a combination of independent and collaborative modes.

CSI Junior

Tuesday, July 10th 2018

Years 4 to 6 Students

Limited to 12 participants

Session Overview

CSI Junior will challenge participants to step into the role of junior Crime Scene Investigators, developing and practicing key scientific skills and forensic techniques and then applying them as a team to solve a series of crime-scene-related problems.

Participant Requirements

Workshop participants should:

- have a keen interest in science and learning to work like a scientist
- have developed reading ability to interact with scientific literature
- be able to work safely and follow instructions in a laboratory environment

Workshop participants should bring:

- an inquiring mind
- a positive attitude
- morning tea and lunch

Presenter Details

CSI: Junior will be presented by Ms Joanna Yaxley, who holds a Bachelor of Science from Lincoln University in New Zealand and a Graduate Diploma in Secondary Teaching from QUT Kelvin Grove. Joanna has held teaching positions in Australia and the United Kingdom, ranging from Head of Year to Head of Middle School Mathematics and Science. Joanna has a passion for using hands-on science activities to bring science to life in the classroom.

CSI Junior will involve participants working within a lab environment in JPC's newly refurbished Senior School Science Facility in a combination of independent and collaborative modes.

Achieving Great Things with Simple Machines

Wednesday, July 11th 2018

Years 4 to 6 Students

Limited to 12 participants

Session Overview

Achieving Great Things with Simple Machines will challenge participants to think about the way simple machines work and how they can be combined to perform elaborate tasks. Participants will have the opportunity to create their very own “Rube Goldberg machine” to carry out an everyday task and will do so using the 6 Ds of Solution Fluency, a combination of key 21st Century thinking and problem solving skills.

For an example of what can be achieved by the combination of simple machines and creative thinking, potential participants are encouraged to check out [this YouTube Video Link](#).

Participant Requirements

Workshop participants should:

- have a keen interest in science, engineering and design
- have developed reading ability to interact with scientific literature
- be able to work safely and follow instructions in a laboratory environment

Workshop participants should bring:

- an inquiring and creative mind
- a positive attitude
- morning tea and lunch

Presenter Details

Achieving Great Things with Simple Machines will be presented by Miss Danielle Hollett (Curriculum assistant, Junior Science and senior QCAA and IB Biology Teacher), who holds a Bachelor of Exercise and Movement Science and a Bachelor of Secondary Education from QUT Kelvin Grove. Danielle is passionate about Science and providing engaging hands on learning experiences for students that involve problem solving and future thinking.

Achieving Great Things with Simple Machines will involve participants working within a lab environment in JPC’s recently refurbished Senior School Science Facility in a combination of independent and collaborative modes.

Worlds of Imagination: Writing Fantasy Fiction

Wednesday, July 11th 2018

Years 4 to 6 Students

Limited to 12 participants

Session Overview

Worlds of Imagination: Writing Fantasy Fiction will challenge participants to channel their inner author and lay the groundwork for their very own fantasy fiction bestseller. After engaging with some introductory literary theory and exploring some of the most evocative fantasy stories ever written, participants will create their own fantastic world and protagonist, ready to let their creativity soar.

Participant Requirements

Workshop participants should:

- have a keen interest in writing and fantasy fiction
- have developed writing ability and familiarity with narrative writing
- be able to work safely and follow instructions in a laboratory environment

Workshop participants should bring:

- an inquiring and creative mind
- a positive attitude
- morning tea and lunch

Presenter Details

Worlds of Imagination: Writing Fantasy Fiction will be presented by Mr Joel Bonomini. Joel is JPC's Gifted Education Facilitator and originally trained as a secondary English and History teacher. Joel is most passionate about providing learning opportunities to gifted children that engage and challenge their capacity for learning and holds a Graduate Certificate in Education (Gifted Education) from UNSW. As a trained English teacher, lover of Tolkien and amateur short story writer.

Worlds of Imagination: Writing Fantasy Fiction will involve participants working within a classroom environment in a combination of independent and collaborative modes.