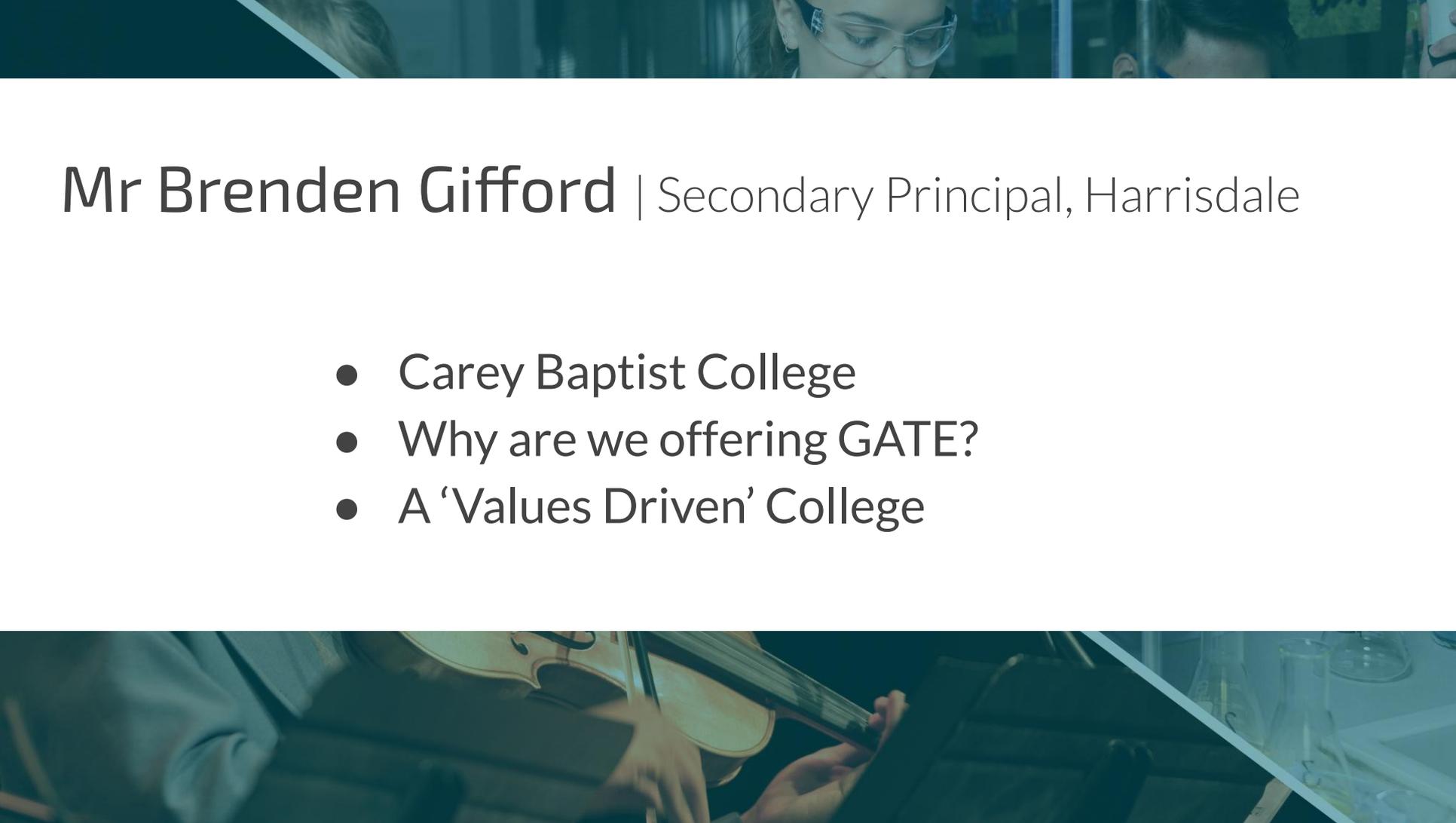




Carey
Baptist
College
Harrisdale

Welcome to Carey Baptist College

Year 7 Gifted and Talented Secondary
Program and Scholarships 2021
Information for Applicants



Mr Brenden Gifford | Secondary Principal, Harrisdale

- Carey Baptist College
- Why are we offering GATE?
- A 'Values Driven' College



Who are we?

We believe that all people are made in God's image, having equal value and the right to be treated with dignity and respect. This is reflected in our College values of: Kindness, Courage, Respect, Humility and Integrity.

Our Motto is 'Attempt the Extraordinary', a paraphrase of the words of William Carey.

Why are we offering GATE?

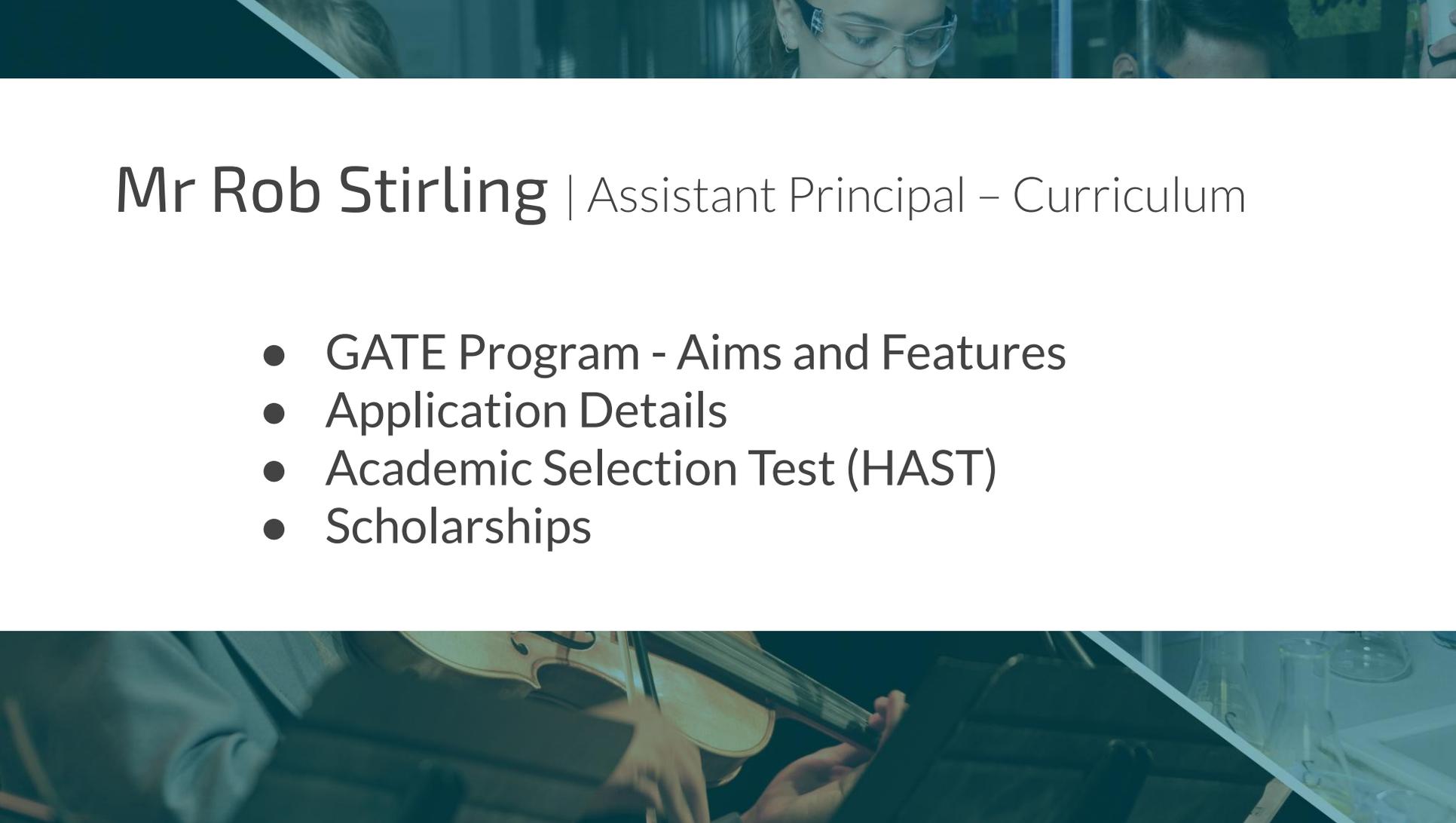
- We have outstanding teachers and teaching facilities.
- Innovative teaching programs help us create opportunities for all.
 - For a Carey program to qualify for ‘GATE’ status the program must extend qualifying students significantly beyond the classroom by providing partnership access to both the tertiary sector and industry.
 - All students at the College will benefit from these programs through increased College cooperation with industry and tertiary sectors and the addition and retention of outstanding learners.



A Values Driven College

Carey remains deeply committed to providing access to exceptional educational opportunities to all of our students. This includes the provision of opportunities for exceptionally gifted and talented students who are committed to contributing to the academic life of the College through the dedicated application of their talents.

At Carey, we believe that all of our students benefit through the balanced inclusion of students who are at all levels of academic ability and achievement and that what matters most is the development of perseverance, character and hope.

The background of the slide is a collage of two images. The top image shows a student wearing safety goggles in a science laboratory setting. The bottom image shows a student playing a violin. The text is overlaid on a white background in the center of the slide.

Mr Rob Stirling | Assistant Principal – Curriculum

- GATE Program - Aims and Features
- Application Details
- Academic Selection Test (HAST)
- Scholarships

Gifted and Talented Program - Aims

The GATE program at Carey aims to provide Year 7 Gifted and Talented students with rigorous, relevant and challenging learning opportunities aligned with their individual learning needs, strengths, interests and goals.

Teachers work with students to foster advanced analytical, critical and creative thinking skills. Students within the program follow a curriculum that is differentiated to best support individual learning needs and accelerate learning by extending their skills with advanced and in-depth study.

Gifted and Talented Program - Features

Features of the GATE program include:

- Specialist teachers with smaller similar ability classes.
- Extension programs in conjunction with Murdoch University, Curtin University and Industry.
- A focus on STEM and Music Specialist Programs.
- Excursions, competitions and engaging academic activities.
- Team building, leadership and problem solving opportunities.
- Project / inquiry based learning strategies.
- Opportunities for Scholarships in STEM, Music Specialist and Academic Excellence.

Gifted and Talented Selective Year 7 Programs and Scholarships | 2021

Three different GATE Scholarships are offered:

1. STEM – Science, Technology, Engineering and Maths
2. Music Specialist
3. Academic Excellence

1. STEM

- The STEM program focuses on project / problem solving inquiry based learning, integrating Science, Technology, Engineering and Mathematics. The integration of STEM disciplines in real world design problems is a way of engaging students in imaginative and collaborative problem solving and reasoning.

2. MUSIC SPECIALIST

- Students will be encouraged to learn through creation, performance and reflection. They will study all genres of music, including Contemporary Popular Music, Western Art / Classical, Jazz and Musical Theatre.

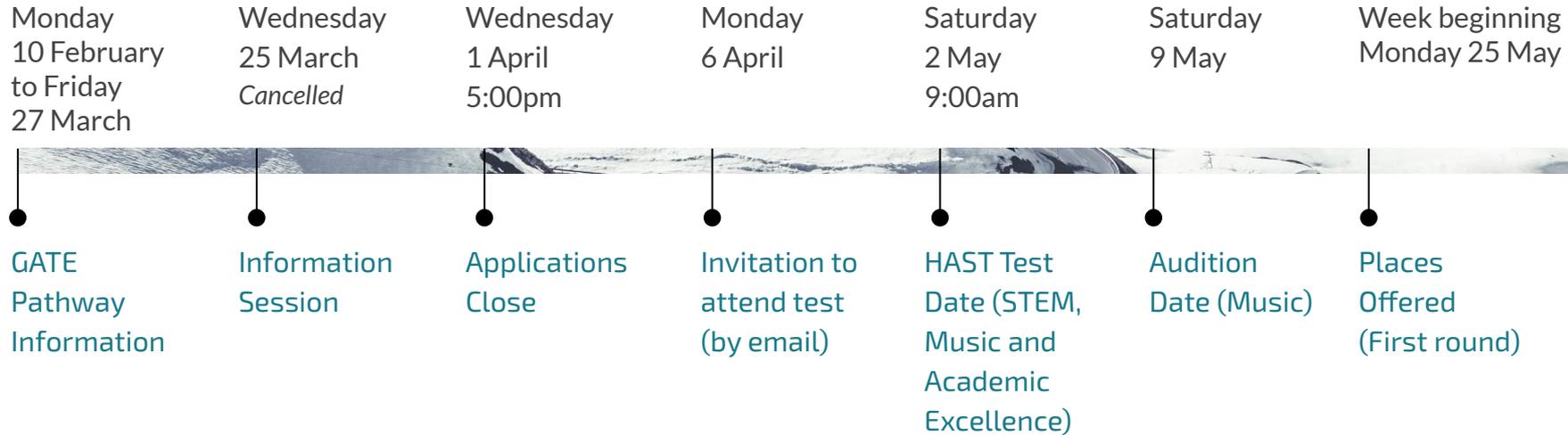
3. ACADEMIC EXCELLENCE

- This is a scholarship which is awarded to students that are all-rounders; have leadership ability and a great work ethic. It recognises students that may be stronger in the English, Humanities and Arts domains.

STEM ELECTIVES

- All students will be also be able to choose STEM electives as part of their Technologies electives in Year 7, including Aviation and Coding.

Timeline and Application Guidelines



Application Forms

These are available from curriculum@carey.wa.edu.au or from Building J at the Harrisdale Campus, or they can be completed online at carey.wa.edu.au/gatemusic or carey.wa.edu.au/gatestem or carey.wa.edu.au/gateacademic

Application Guidelines

All parents need to supply the following (including Carey students).

- Most recent end of year report (include copy).
- Copy of Year 5 NAPLAN results (include copy).
- Certificates and Awards won by the student (include copies).
- Other interests/abilities the applicant has and to what level.

NB. Points are awarded on the evidence presented in the application which goes towards determining which students are invited to sit the test. These are later added to the HAST test results to rank the students and offer the GATE positions.

Application Guidelines

Please see the list of other documents required with the application.

- Birth Certificate.
- Recent photograph (for identification).
- Copies of recent Music exam results, especially if applying for GATE Music (if applicable).
- Recommendation from child's music teacher/tutor, especially if apply for GATE Music (if applicable).
- Information regarding any disability (if applicable).
- Evidence of participation in extension (e.g. PEAC) or STEM programs (if applicable).

Application Details

- Applications may be made for the GATE STEM, Music Specialist and Academic Excellence scholarships, but students can only be awarded one of these.
- Up-to-date and accurate information must be included in the application (by parents / guardians).
- Invitations to sit the HAST Selection Test (and Music audition) will be made from the applications submitted (which includes reports / NAPLAN results and other information supplied).
- Applicants for ALL programs are required to sit the HAST. Students who have sat the ASET (Dept of Education test) should send in their ASET results when they receive them in mid-May.

Application Details

- All applications will be acknowledged.
- Auditions for Music Applicants will take place on the Saturday following the academic test. Applicants will be contacted with the times for their audition.
- Positions in the GATE program and scholarships will be allocated on the basis of the results in the HAST Selection Test and Application Information supplied; and for Music Specialist Applicants, the audition and interview.
- All applicants will be considered, even if unable to sit the HAST test (i.e. due to Covid19).

So, what is the test ... ???

Higher Ability Selection Test (ACER)

The HAST is an ability test used by many independent secondary schools to identify academically gifted students for participation in accelerated learning and enhancement programs. The HAST delivers rigorous tests in four areas: reading comprehension, mathematical reasoning, abstract reasoning and written expression.

Testing will take place in three classrooms in Building J to ensure social distancing is maintained. Health Department directives will be complied with. Students will enter the classrooms at 8.45am with the test commencing at 9.00am.

Applicants should bring a snack with them, as there will be a break during the test.

Higher Ability Selection Test (ACER)

The HAST is designed to measure innate ability and academic potential unlike curriculum-based tests. The test material is presented in a wide range of contexts and includes some items that are highly verbal, some that require the ability to perceive concepts at an abstract level, others that require the ability to synthesise, extrapolate or make inferences and some that apply logical and strategic thinking to solve a problem.

The HAST is similar to the ASET Test used by the Dept of Education (both produced by the Australian Council of Educational Research). Sample questions are included in the HAST Sample Question Booklet available from Carey Baptist College, or online.

Selective Entrance Test

9:00am Saturday 2 May

The HAST Test has four parts:

Students enter and are seated

8:45am

Part 1: Reading Comprehension

9:00-9:45am 45 minutes

Part 2: Mathematical Reasoning

9:50-10:30am 40 minutes

Break

10:35-10:55am 20 minutes

Part 3: Abstract Reasoning

10:55-11.25am 30 minutes

Part 4: Written Expression

11:30-11:55am 25 minutes



Part 1 Reading Comprehension

This part measures how well students understand and interpret a range of texts, the topics of which are drawn from various subject areas, and may include diagrams, tables, charts or maps.

No special knowledge in the subject areas is required.

All the information needed to answer the questions is printed on the paper.

There will be approximately 40 multiple choice questions in this part in 45 minutes.

No Dictionary or Thesaurus is permitted.



Part 2 Mathematical Reasoning

This part attempts to measure Mathematical ability. The material used for questions in this part is selected from a wide variety of sources and may differ from the standard curriculum materials.

There will be approximately 30 multiple choice questions in this part in 40 minutes.



Part 3 Abstract Reasoning

This is a non-verbal part that measures abstract reasoning skills, including the capacity to make sense of complex situations, to draw meaning out of events, to perceive and think clearly.

This part will ask students to identify and complete various picture sequences and patterns.

There will be approximately 30 multiple choice questions in this part in 30 minutes.





Part 4 Written Expression

This part is concerned with student's ability to express their thoughts in writing. The stimulus that students are given must be the basis of their writing.

In assessing this part, markers consider the following issues:

- thought and content;
- structure and organisation.
- expression, style and mechanics.

This part is allocated 25 minutes.



Audition (Music Applicants)

Saturday, 9 May

Candidates will be emailed with the times for their auditions which will take place in the Music Room (MU 6) which is on the first floor of Building M. There is a warm up room next door (MU 7) provided for students.

Candidates should arrive 30 minutes prior to their audition and be prepared at the designated time.

For candidates shortlisted, each audition should take about 20 minutes.

Questions on the MUSIC auditions can be directed to Mr B. Thompson (Head of Music).



Scholarship Details

Scholarships, to the value of 75% deduction of academic tuition fees, will be awarded to the successful candidates in a first round of offers.

Acceptance of the scholarship and place in the GATE program is required within 7 days of the offer being made, following:

- an interview with the Principal;
- the return of the completed and signed enrolment documents;
- payment of the enrolment fee; and
- the acceptance of the Terms and Conditions.



Scholarship Details

Successful candidates will be invited for an interview with the Principal in the week commencing Monday 25 May.

If vacancies in the scholarship program remain, a second round of Scholarship offers will occur, with scholarships awarded to the value of 50% deduction of academic tuition fees.

The continuation of the scholarship depends on the student's positive conduct and academic progress (see Terms and Conditions).

Terms and Conditions

*See Terms and
Conditions Sheet*
on the Carey website
for the full list*

Key terms and conditions include:

- To be eligible, the student applicant must be a citizen or permanent resident of Australia, and they must be enrolled as a full time student.
- Recipients of GATE Scholarships are expected to maintain high academic progress, to take an active part in the various co-curricular activities offered, support the ethos and aims of the College and be a positive influence within the College community.
- GATE Scholarships are for the duration of the student's Secondary education.



Scholarships Offered in 2020

Recipients of Carey Scholarships in 2020 came from different 18 schools. These included:

Carey Baptist College

Bletchley Park PS

Caledonia PS

John Bosco

Thornlie Christian College

Excelsior PS

Aubin Grove PS

Atwell PS

Campbell PS

.

Challis Community

Divine Mercy College

Gibbs St PS

Gooseberry Hill PS

Harmony PS

Langford Islamic College

Oberthur PS

Piara Waters PS

Ranford PS

A woman wearing safety glasses is looking down at a task, possibly in a laboratory or workshop setting. The image is partially obscured by a white banner containing text.

Mr Bruce Thompson | Secondary Head of Music

- Music Audition
- Music Expectations
- GATE Specialist Music Program



HOW PLAYING AN INSTRUMENT BENEFITS YOUR **BRAIN**

TEDEd





Audition (Music Applicants)

Saturday, 9 May

Each candidate is required to present:

1. Two contrasting pieces of the candidates own choice
2. Sight-reading
3. Aural test
4. Interview with the audition panel

Shortlisted applicants are welcome to provide their own accompanist at their expense.



GATE Specialist Music Expectations

Students will:

- require weekly individual instrumental lessons (Carey or external tutors) - paid by parents;
- maintain a high level of achievement in their chosen field of music study;
- take classroom Music Specialist elective at least until the end of Year 10;
- be a member of instrumental / vocal ensembles;
- be fully supportive of, and contribute to, the musical life of the College;

Scholarship recipients will be reviewed annually.



What the GATE Specialist Music Program Offers

- 2 sessions of Music per week in Year 7 and Year 8 (1 practical, 1 theory / aural skills).
- Co-curricular ensembles.
- Performance opportunities.
- Close links to WAAPA and James Morrison Academy.



Carey Attempt
the Extraordinary

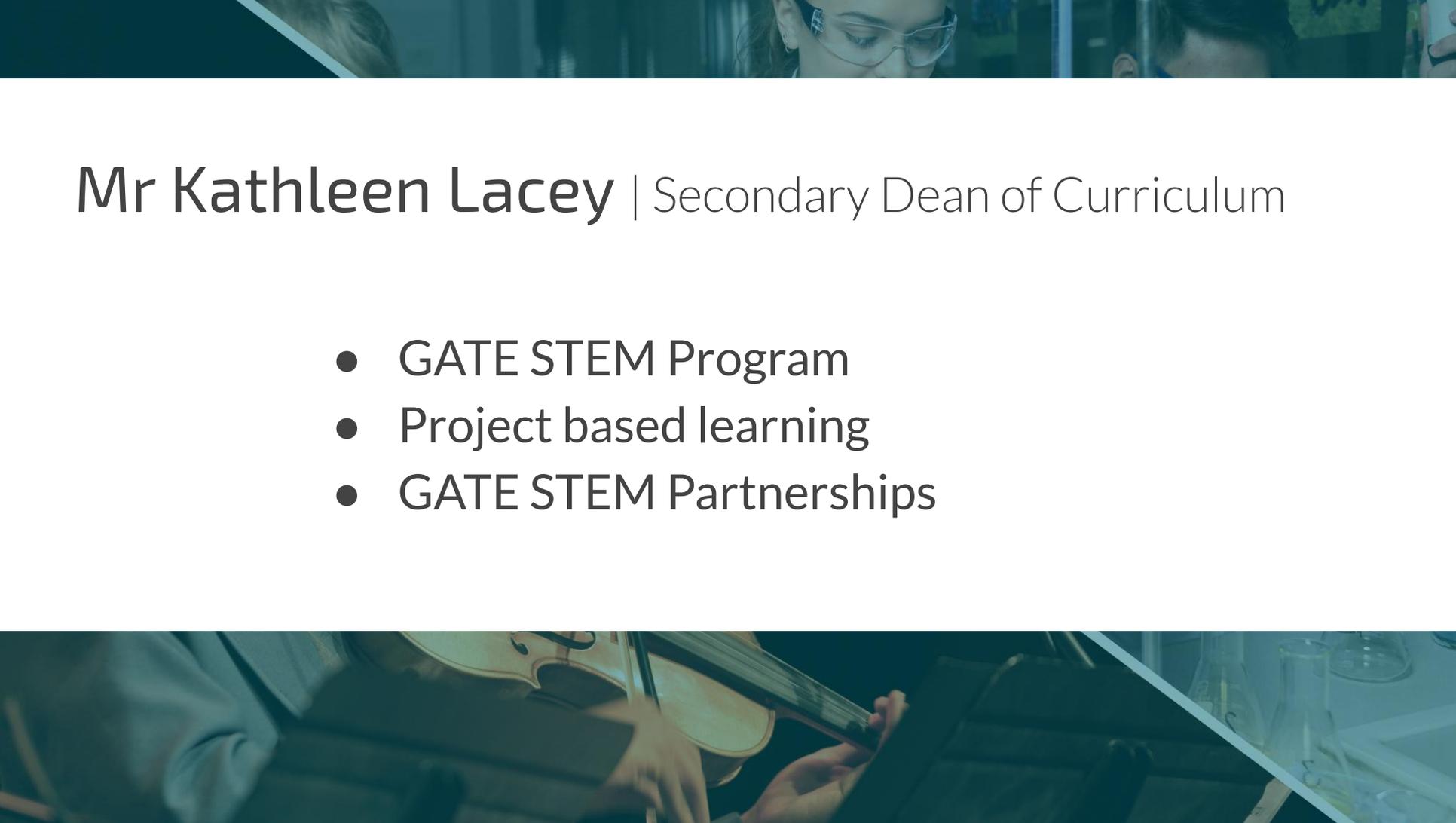




GATE Music Offers

- Wind Orchestra
- Choir
- Big Band
- Vocal Ensemble
- Intermediate Big Band
- Contemporary Ensembles
- Small Jazz Combo(s)
- Musical Pit Orchestra
- Flute Choir
- Praise and Worship Ensemble
- Brass Ensemble
- Percussion Ensemble
- Excellent facilities – Yamaha C6 Grand piano and Yamaha sound equipment.
- Practice rooms, small ensemble rooms.
- Music technology – Mac lab, Mini recording studio
- Nationally renowned music tutors.
- Music Camp / Ensemble Concert / Anzac Day March / Recital nights / Music Tours



The background of the slide is a collage of two images. The top image shows a student wearing safety goggles in a science laboratory setting. The bottom image shows a student playing a violin. The text is overlaid on a white background in the center of the slide.

Mr Kathleen Lacey | Secondary Dean of Curriculum

- GATE STEM Program
- Project based learning
- GATE STEM Partnerships



GATE STEM Program

STEM capability is the key to navigating the employment landscape changed by globalisation and digital disruption.

STEM builds critical and creative thinking and problem solving, supported by skills of collaboration, teamwork and literacy in mathematics, science and technology.



GATE STEM Program

STEM uses Science, Technology, Engineering and Maths to address real world problems.

In STEM students draw on prior knowledge and learn new principles to collaboratively produce solutions.

STEM is delivered using a 21st Century approach which focuses on skills in **project management, design and problem solving** which will prepare students for the changing workforce of the future.

GATE STEM Program

How will our program at Carey develop this?

The STEM program is project based working in partnerships with Universities and Industry. This involves

- working collaboratively in groups;
- solving problems;
- teaching limited to information that students need to make decisions related to the project.



GATE STEM Partnerships

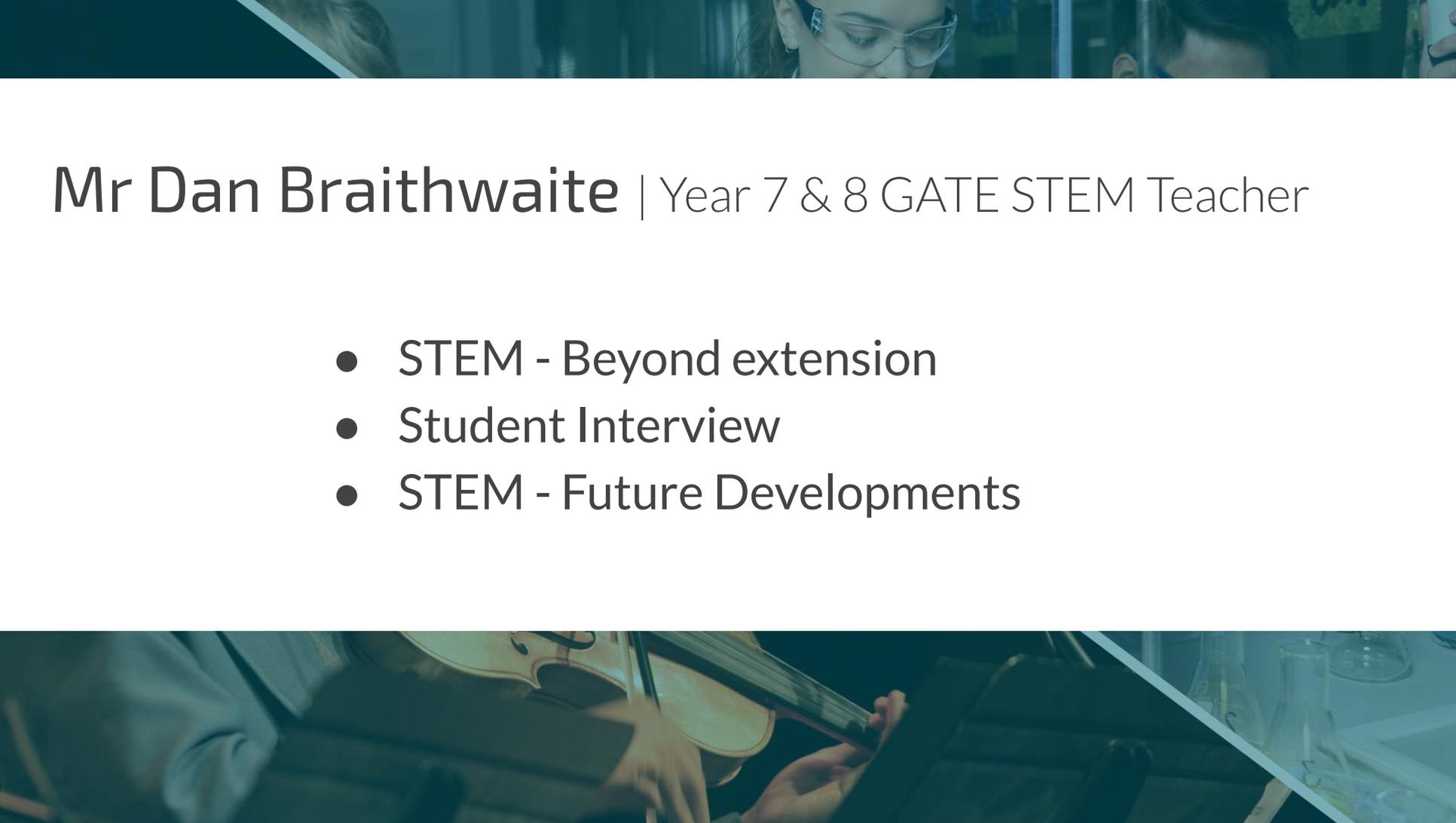
Who else is involved?

- Universities
 - Curtin University
 - Murdoch University
- Industry

Specific questions on the STEM program can be directed to Mrs K. Lacey (Dean of Curriculum) or Mr D. Braithwaite (Year 7 & 8 STEM Teacher).

Mr Braithwaite (Year 7 & 8 STEM teacher) is a qualified Engineer, who also teaches Year 11 and 12 Physics.





Mr Dan Braithwaite | Year 7 & 8 GATE STEM Teacher

- STEM - Beyond extension
- Student Interview
- STEM - Future Developments



GATE STEM Program

How is STEM beyond an enrichment or extension program?

- With its focus on national and international competitions.
- By undertaking investigations into real world problems and developing solutions.
- By teaching advanced STEM content through engaging projects.
- By building STEM competencies across multiple years.
- STEM students will also undertake the regular Year 7 Maths and Science Extension curriculum.

GATE STEM Program

Science Talent Search

- A state, national and international competition.
- Investigations in the current Year 7 GATE STEM program include:
 - Which berries would be best for farmers in Algeria to grow?
 - What is the best wheel arrangement for a robot to climb stairs?
 - What is the most sustainable method for desalinating water in the water scarce MENA region?



GATE STEM Program

The STEM program includes a selection from the following:

- **Coding**

- Hardware: Kodeclicks, Ardueno, Drones, other robots
- Software: Block coding, Python

- **Construction**

- Electric solar vehicles, submarines, bridges, galactic and space challenging vegetable gardens, F1 in schools

- **Competitions**

- Science Talent Search, Big Science Challenge, Olympiads, Science and Engineering Challenge

- **Investigations**

- Using the scientific method to design and complete a range of investigations

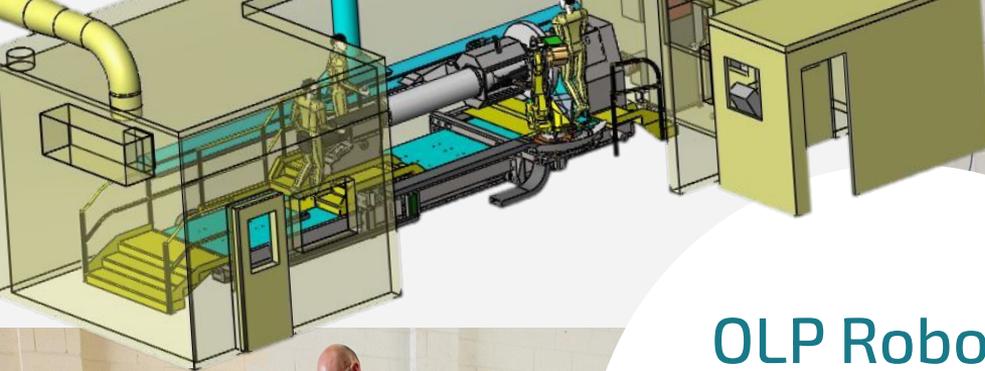


GATE STEM Program

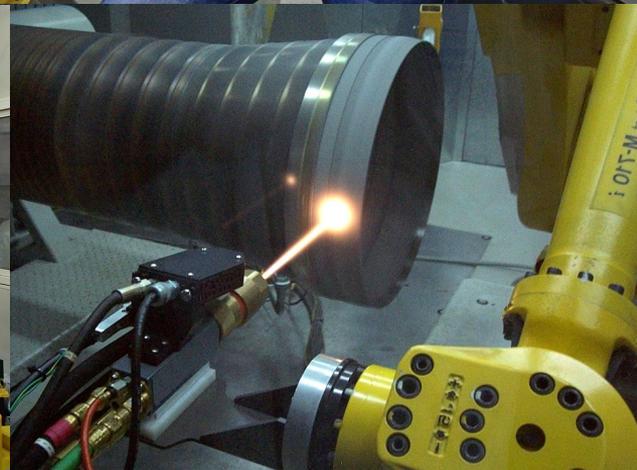
Developing industry partnerships

- Keeping up to date with cutting edge technologies
- Providing 'real-world' industry experiences
- Expanding student knowledge of possible STEM careers
- Example: OLP Robotics (see following slides)





OLP Robotics
is dedicated to supporting
Australian and New
Zealand Companies
improve their **Safety**,
Quality and **Productivity**
through affordable
process automation



Robotics In Industry

Health and Safety

- Manual handling injuries
- Hazardous environments
- Repetitive strain injuries

Cost Saving

- Reduced training costs
- Reduced material wastage

Quality

- Perfect repeatability and accuracy
- Reduced rework and cost of quality



Productivity

- Reduced down time
- Reduced post-processing
- Faster process speed
- Scalable
- Versatile

Applications

- Welding
- Metal Spray
- Materials Handling
- Brazing
- Plasma/laser cutting
- Polishing

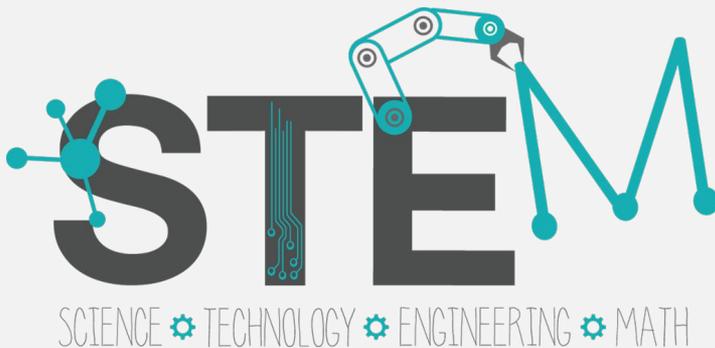
The Future of Industry

Robotics

Programming

Computer-Aided Design

Electronics





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Thank you