



HOWICK  
COLLEGE

# Innovation Stream @ Howick College

“We cannot always build  
the future for our youth.  
But we can build our  
youth for the future.”

*Franklin Roosevelt*



**Y9 and Y10 PROGRAMMES  
2018**

## The 'Exponential Age' and 21<sup>st</sup> Century learning

Driverless cars are now legal in three US states. One third of payments in Kenya are made via mobile phones. Texting by thought alone is predicted to be available in the next 5-10 years. Machines now do much of the work that was previously done by people. Our students are entering a different world to that of their parents and teachers with new job and learning opportunities. These opportunities need students that can think deeply about issues, solve problems creatively, communicate clearly in a variety of media, learn ever-changing technologies, and deal with multiple sources of information. The rapid changes in our world require students to be flexible, to take the initiative and lead when appropriate, to collaborate with others with a range of expertise and to create new and useful products and processes.

## The innovation stream @ Howick College

This is an exciting initiative at Howick College for students who wish to be involved in an innovative curriculum based on developing learners, leaders and change-makers who use knowledge meaningfully across the core subjects of English, Mathematics and Statistics, Science and Social Studies. The Innovation Stream is designed to focus on the following 6 areas of deep learning:

### CHARACTER

**Build resilience, empathy, confidence and initiative.**

- Recognise, address, and overcome obstacles.
- Show initiative and persistence.
- Work independently and interdependently.
- Enjoy intellectual challenge and be willing to take risks.
- Set high goals, make plans, manage projects.
- Demonstrate integrity and take responsibility for their actions.

### CITIZENSHIP

**Be a global citizen, demonstrating understanding of diverse viewpoints and ways of thinking.**

- Take an active interest in the future by exploring issues such as sustainability, enterprise, globalisation and ethics.
- Give service to the community.
- Make a difference.
- Show respect for different viewpoints, cultures and ways of thinking by active listening, negotiation and sharing ideas.
- Show leadership that inspires learning for all.

### COMMUNICATION

**Apply speaking, listening, writing and reading skills in a variety of contexts.**

- Develop strong oral, written, visual and digital literacy skills.
- Use language, symbols and texts to communicate information, experiences and ideas.
- Use ICT effectively to communicate in a range of ways and contexts.

### COLLABORATION

**Work in teams to learn with and from others.**

- Work co-operatively and collaboratively in teams and communities.
- Understand the importance of balancing rights, roles and responsibilities.
- Develop team-building and leadership skills
- Acknowledge, accept and use their strengths and the strengths of others.

### CREATIVITY

**Develop abilities to create, design and innovate.**

- Develop creative, integrated and metacognitive thinking.
- Explore abstract and complex issues.
- Use technologies to innovate and design.
- Show intellectual curiosity to actively seek, use and create knowledge.
- Reflect on learning, ask questions and challenge assumptions and perceptions.

### CRITICAL THINKING

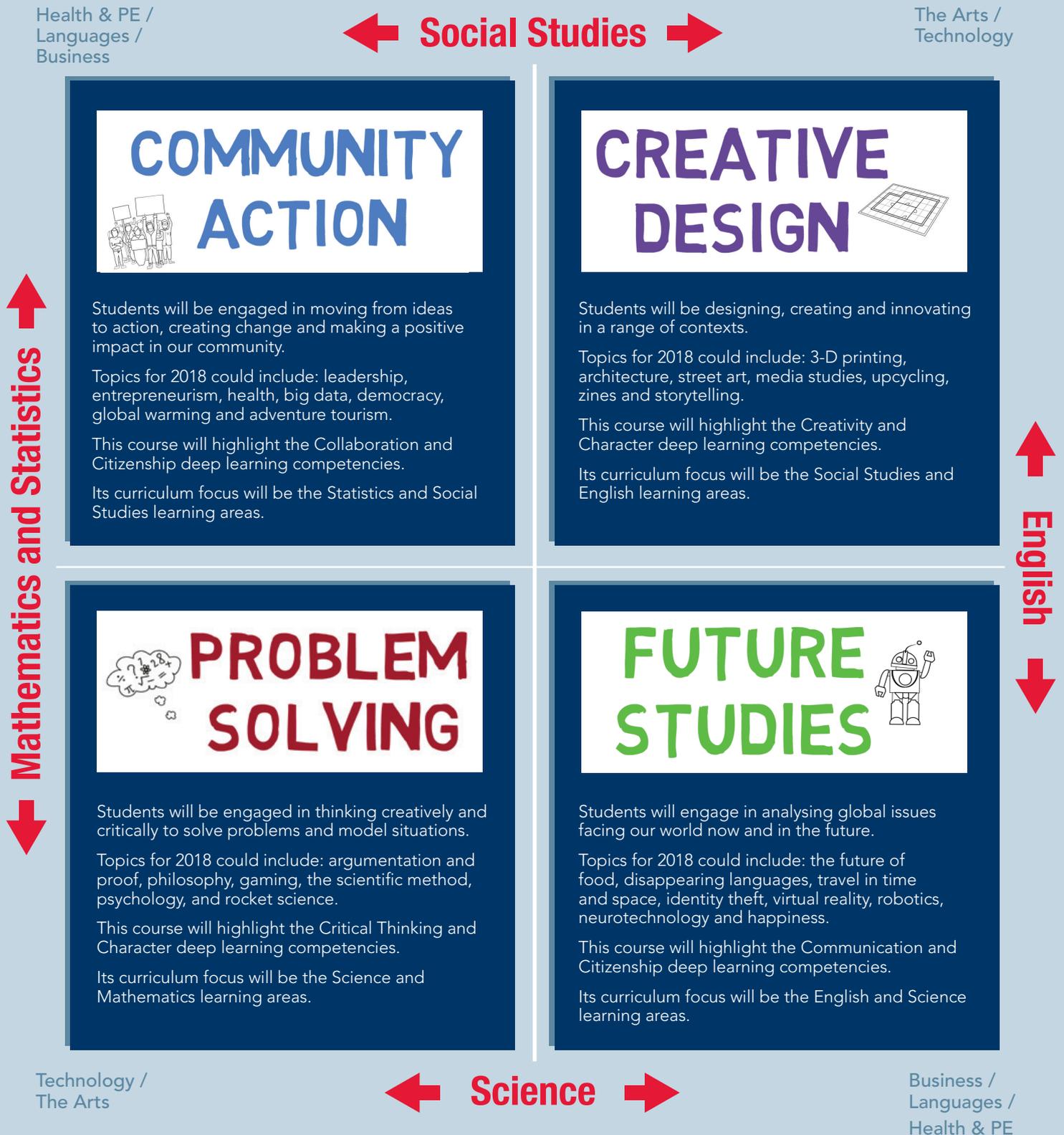
**Develop abilities to seek and solve problems, and model situations that require critical and analytical thinking.**

- Develop ability to critique and analyse information, experiences and ideas.
- Develop and use effective research techniques.
- Apply problem solving processes to new problems, challenges and issues.
- Experience concrete, real-world applications of problem solving.

## New courses to engage and inspire

Students in the Innovation Stream take 4 'new' courses instead of the traditional English, Mathematics, Science, and Social Studies. These four courses still include the same curriculum content as for the four core subjects, however the content is integrated across the following focus areas: Community Action, Creative Design, Problem Solving and Future Studies.

The diagram below shows the 4 core subject areas from the New Zealand Curriculum and how they would be incorporated into the 4 Innovation Stream courses. As this is an integrated approach aspects of the Health and PE, Languages, Business, The Arts and Technology curricula will also be used to support meaningful learning.



## Passionate teachers working together with passionate learners

14 teachers have been selected across the four core subjects to form our Innovation Stream teaching team. They have been selected for their abilities to integrate learning and inspire all learners to achieve. Pairs of teachers work together to design and teach each of the four 'INNS' subjects and ensure that all learners are engaged in meaningful learning.

### Graduate profile

Innovation Streamers will be passionate life long learners who:

- Make a difference
- Look to the future
- Find and solve problems
- Imagine, design and create
- Take responsible risks
- Are change leaders
- Collaborate with shared purpose
- Critique and evaluate
- Communicate effectively
- Innovate and disrupt
- Meaningfully use exponential technologies

### Year 11 and beyond

Students have the option to continue with the Innovation Stream in Year 10, and, if there is interest, into Year 11. The course is designed so that students wishing to move back into a more traditionally structured course could do so at the end of Year 9 as they will have still covered the same content in the four core subjects as those in the mainstream at Howick College.

### How does this link to NCEA?

This course is specifically designed to support the types of thinking required to attain Excellence in the NCEA: Creative, Critical, Perceptive and Integrated thinking. Students will cover the same material as those in the mainstream and so will be able to select from the full range of NCEA Level 1 subjects in Year 11. The Innovation Stream is designed to support strong levels of literacy and numeracy and lead into subject specialisation in Years 11-13.

### Assessment

Students will be assessed against the same English, Maths, Science and Social Studies curriculum objectives as those in mainstream courses. The way they are assessed may be different with a focus on innovative ways of demonstrating learning. All students will maintain an e-portfolio of evidence as part of the four 'INNS' courses.

### Is this a gifted and talented programme?

This programme is designed for learners of all abilities. Any students with a passion for learning in an innovative learning environment are welcome to apply for entry (see "Is the innovation stream for me?" below).

### What about option subjects?

Students will spend 15 hours a week in the four Innovation Stream courses. For the remainder of the time they will be in mixed option subjects of their choice (selected from the Technology, Arts, Languages, and Business subject areas) as well as PE and Health classes to cover the remainder of the curriculum.

### Use of technology

As with the mainstream at Howick College all students in Year 9 and 10 are required to have a digital device to enhance their learning. Innovative use of technology will be a key feature of the Innovation Stream.

### Is the innovation stream for me?

- I have an interest in the future and futuristic thinking
- I am interested in making a difference in my community
- I like learning things in different or unique ways
- I like working collaboratively with others
- I like problem solving and finding new problems to solve
- I would like to choose the topics that I study

### Further information...

There are limited spaces available for this programme in 2018. Any students who wish to be considered for entry need to complete the Innovation Stream application form (available in your enrolment pack) and return to the office by 25 August 2017. For questions not covered in this brochure please contact the programme director Angela McCamish by email [angela.mccamish@howick.school.nz](mailto:angela.mccamish@howick.school.nz) or the Associate Principal Louise Addison [louise.addison@howick.school.nz](mailto:louise.addison@howick.school.nz).