

Physical Computing with Arduino and ThinkerShield

A joint project between Aurora College and the MAAS



Aurora College partners with a range of educational, scientific, cultural and tertiary institutions and we are proud to be working with the Museum of Applied Arts and Sciences (MAAS), otherwise known as the Powerhouse Museum, to deliver this short course on physical computing.

About the course

An experienced Powerhouse Museum Educator will lead a team of 10-15 Aurora College students in this practical 'hands-on' course. This 10 week program adopts a 'learner-centred' approach that targets design-thinking, seeks to find solutions to real world problems and engages students in data analytics, including collecting, interpreting and reporting data.

Course materials will be posted to each student. Materials include an Arduino board, ThinkerShield and activity book. Each student will have the opportunity to work at their own pace, but also have access to the guidance and support of the Powerhouse Museum Educator. There will also be opportunities to enter competitions such as the Young ICT Explorers <http://www.youngictexplorers.net.au/>.

By the conclusion of the course students will develop their skills, knowledge and understanding in the following areas – teamwork, problem-solving, computer science, computer programming skills and electronics.

Aurora College will ensure that the course is linked to our merit system and that students will be acknowledged accordingly.

Each session will be held in a virtual meeting room via Adobe Connect. Communication about the course will take place via email.

Course requirements

Date: Commencing 3rd Feb 2016
Time: each Wednesday from 2-3pm
Cost: \$40 per student
Location: Online via Adobe Connect

Students must commit to attending each one hour session for the 10 weeks. Materials will be posted to the student's home school address via the Aurora College Coordinator.

Closing date and payment

To confirm a place for this course, please complete the form on the following page and email it to Kate Thompson, Head Teacher Secondary Studies, by **Wednesday 16th December**. Places will be offered in the order that they are received.

Email form to kate.donnelly@det.nsw.edu.au or call 02 9886 7234 if you have any questions.



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AURORA
COLLEGE

The student named below is committed to participating in the Physical Computing course each Wednesday from 2-3pm in Term 1, 2016.

Permission

Student name: _____
Home School: _____ Year Group: _____
Aurora College Coordinator: _____
Parent Signature: _____

Payment (\$40.00)

Please indicate your method of payment by ticking the box next to the preferred option.

CHEQUE

Please make cheque payable to Aurora College and post to:
Aurora College
3B Smalls Rd
RYDE NSW

CREDIT CARD SECURE PAYMENT ONLINE

Reference MAAS and name of student. Go to www.aurora.nsw.edu.au 'For parents'/make a payment

CREDIT CARD

Card type: Mastercard Visa
Card number _____/_____/_____/_____
Expiry date: _____/_____ CCV: _____
Cardholder name: _____
Cardholder signature: _____