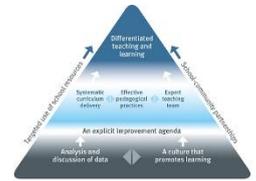# BE A STEM LEADER

Invest in student, staff and school improvement

CODING FROM SCRATCH – YEARS 3-4

Register Here

✓ Differentiate teaching and learning

Coding from Scratch develops students' problem-solving and thinking skills as they acquire an understanding of how technologies can work for them. Your students will:

- develop computational, design, systems and futures thinking skills;
- learn the basics of block coding through Scratch;
- be taught by a specialist teacher from the IMPACT Centre;
- build technology skills and confidence for future online learning and assessments.

✓ Improve outcomes

The following graph demonstrates that the achievement of *Years 3-4 Coding from Scratch* students significantly improved from pre- to post-assessment in 2018-2019.

IMPACT Centre: Coding from Scratch Yr3-4 Project Results
2018 - 2019 (8-12 Lessons)

Pre-Test		
Mean	**StDev**	**N**
35%	3.64	139

Post-Test		
Mean	**StDev**	**N**
69%	4.71	139
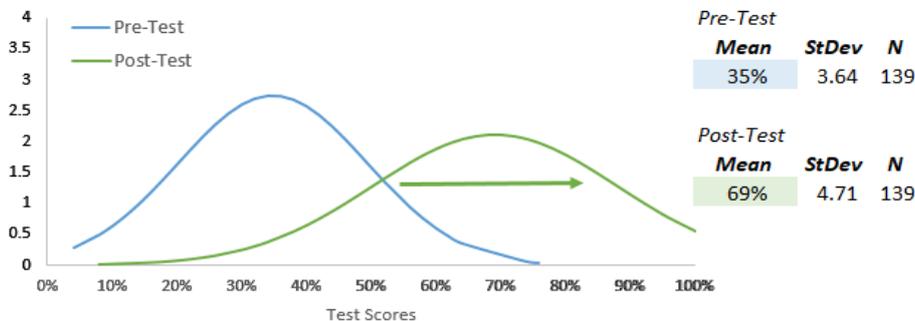
✓ Deliver curriculum

AUSTRALIAN CURRICULUM - Content Descriptors	General Capabilities
Technologies - ACTDEK019, ACTDEK021, ACTDEP024, ACTDEP025, ACTDEP027, ACTDEP028	

✓ Develop expertise

- We highly recommend that your supervising staff member/s login, learn alongside your students and collaborate with our specialist teachers.

- They develop curriculum, pedagogy and technology expertise, which transfers to their teaching or leadership role.

- Offer the opportunity to a leader, teacher or aide.

- They earn a PD Certificate aligned to AITSL standards – through active participation in lessons and completion of a short online module.

📞 **(07) 3634 1888** ✉️ **admin@impact.eq.edu.au** 🌐 **impact.edu.au**

BE A STEM LEADER

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Student target group

- Your school determines which students participate – many schools use this program as a differentiation opportunity for mid-high achieving students.
- Teacher judgement and student interest in the topic should assist selection.
- Student or parent nomination is also an option.

Assessment and reporting

- Assessment involves a pre-test to provide diagnostic data, a post-test to measure distance travelled, and check-in programming tasks collected in a digital portfolio.
- Your school receives a written report containing pre- and post-assessment results, attendance data & survey feedback. You also receive report card comments (OLA).

Course outline

1	Inspiring introduction to *Coding from Scratch,* online learning skills, avatar
2	Pre-test, code in our lives today, eLearn introduction
3	Overview of programming, introduction to block code
4	Programming and problem-solving with Blocky
5	Programming with Blocky, Blocky Challenge Check-in
6	Overview of Scratch code, programming in Scratch
7	Programming and problem-solving with Scratch
8	Programming in Scratch, Scratch Challenge Check-in
9	Programming with electronics, introduction to electronics kit
10	Code in context, use electronics kit
11	Post-test, Electronics Challenge Check-in
12	Futures thinking, the real world of code, code syntax

Timetabling, group size and costs

- Students participate in 1 x 60 min web conference lesson per week for 12 weeks.
- We negotiate the timetable with you - nominate 2-3 preferred times.
- 3 x 12 week rounds run across the year – this project is available in all rounds.

Round 1: Feb 3-May 22				Round 2: May 25 – Aug 28				Round 3: Aug 31- Dec 4			
Feb	Mar	Apr	May	May	Jun	Jul	Aug	Aug	Sep	Oct	Nov
Available				Available				Available			

- 14-15 students form an online group – from your school or multiple small schools.
- You can involve a full class of 28-30 students – this is classified as 2 groups.
- We operate on a cost recovery model – invest a small fraction of FTE or cash.
- **Round 3 cash option is $290 per student or $4300 per group of 15 students.**
- *Coding from Scratch* involves an additional charge of $35pp for an electronics kit.
- Your school is investing in the time of a specialist teacher who works directly with your students and staff and is employed by the Department of Education.
- Consider using *Investing for Success* or *Advancing STEM in primary schools* funds.
- See How it works and Investment options and costs for specific details.

STEM SUCCESS

STAFF: Coding from Scratch has been a great project to build student ICT capabilities and to build their coding knowledge and skills. The online teacher does a great job of explaining the what and the how to the students. The lessons are a great PD opportunity and help me to understand the language and concepts and help me to be able to more effectively work with the Digital Curriculum.

STUDENT: I have improved my coding skills and learned how to create or edit block code programs. Coding might let me get a job in the future.

STUDENT: In the future I will use it when I want to do it at home and it will be awesome. I cannot wait for each week and I love doing it.

STUDENT: I have learnt lots of tech skills for coding and just getting around the computer it is more easier and more fun. I think it is fun having a different teacher for something fun I really enjoyed these IMPACT sessions!

Register Here

How it works	Investment options and costs	View all programs