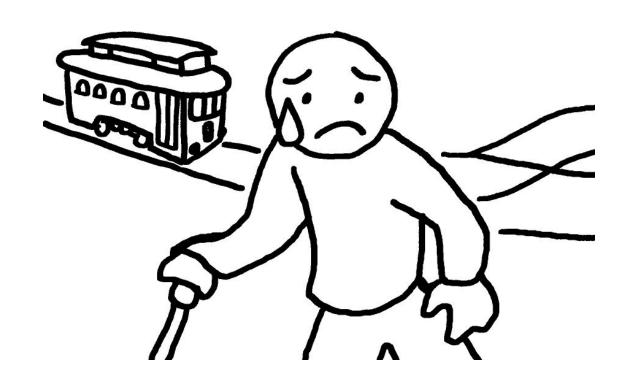
PRESS PLAY WITH OMGTECH!



ETHICS & MORALS

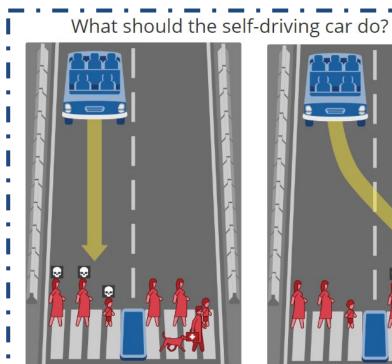


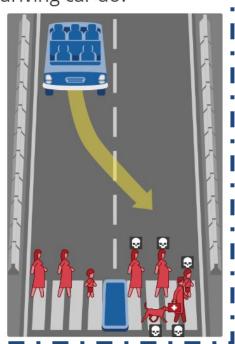


ETHICS & MORALS

http://moralmachine.mit.edu/







ETHICS & MORALS

MORAL MACHINES EXERCISE:

- Judge which outcome you think is more acceptable
- Design your own scenario

What should the self-driving car do?

In this case, the self-driving car with sudden brake failure will swerve and crash into a concrete barrier. This will result in ... Dead:

- 3 homeless people
- 2 women



iption Hide Description

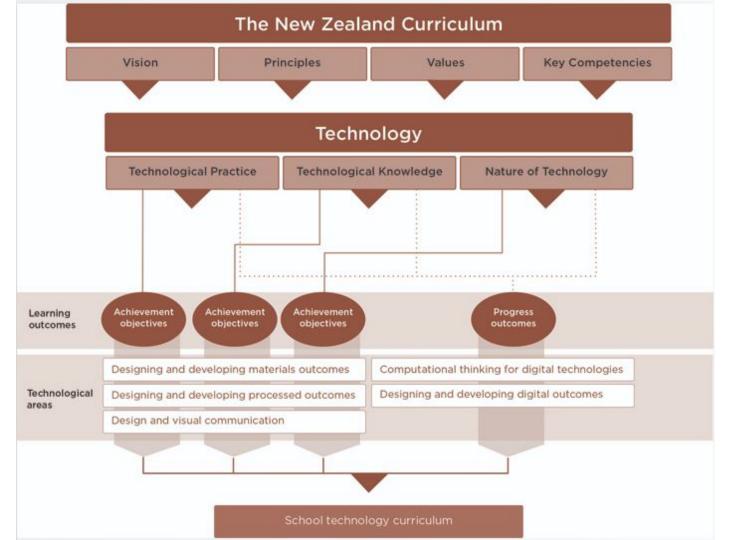
8 / 13

In this case, the self-driving car with sudden brake failure will continue ahead and drive through a pedestrian crossing ahead. This will result in ... Dead:

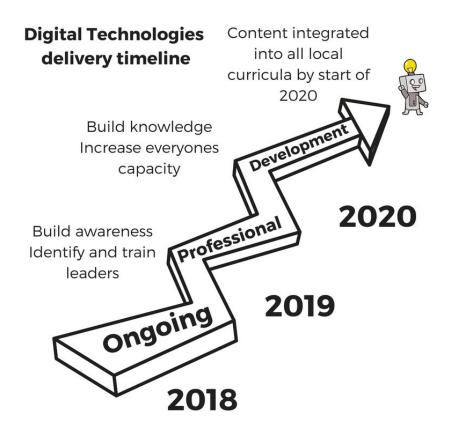
- 2 men
- 1 female executive
- 2 male executives







Delivery timelines





SO WHAT IF YOU COULD.....

...Transform every classroom into a center for innovation and creativity





COMPUTATIONAL THINKING							DESIGNING & DEVELOPING DIGITAL OUTCOMES				
Curriculum Level	Year	PO Level	Algorithms	Data Representation	Computational Thinking	Things to do?	Year	PO Level	Digital Applications	Digital Infrastructure	Things to do
1	0		Non computerised step by step instructions for a simple task		Algorithmic thinking Logical Thinking Decomposition Simple Debugging - What went wrong & how would y ou fix it?	CS Unplugged Hello Ruby code.org Scratch Jnr	0	1	Identifying digital applications Awareness of purpose of applications Understanding Humans make applications	Understanding basic storage & retrieval Understand basics of computer system Inputs & Outputs of a system	
	1	1					1				Hello Ruby CS Unplugged
	2						2				IOT ex ercise
2	3	2	Computerised step by step instructions (Program) for a simple task		What is an algorithm What is a program Inputs Seguences	Scratch Jnr CS Unplugged Kiwi Code Hello Ruby Hour of code code.org	3				Unmaking Music Film making Animation Makey Makey
	4				Outputs Simple Debugging		4	2	Understanding how applications change over time Understanding techs impact on society Use more advanced applications & Files types	Understanding components of a computer system & how it works together Understand human's role in system Intellectual property	Robotics 3D Printing A RV/R Tech for good Unmaking & Remaking Wearables - Lily Pads Microbit Aurdino Rasbny Pi
	5						5				
3	6	3	Create a basic algorithm & program on their own to solve a slightly complex task including iteration	Understand Binary - two states	Building on outputs and inputs Evaluate code understanding there can be more then 1 solution Error Detection Loops & Iteration Logical Thinking - Prediction	Hour of code Code Avengers code. org Scratch CS Unplugged code. org	6				
4	7	,					7				
	8	4	Create a simple program using		Evaluate code efficiency, elegance and eloquence Selection - If statements Comparative operators Variables UX- Efficiency & usability	Scratch gamefroot Codeavengers MinecraftEDU CS Unplugged	8	3	Select appropriate software type for tasks & use it to make the required outcome Design, develop, store, test, & evaluate content	Understand operating systems, and security Understand file management procedures Understand storage Privacy & Security Social, ethical, end user concerns	
5	9	<i>F</i>	all CT concepts used so far				9				
	10	5	Create a complex program- multiple algorithms - uses all CT concepts used so far Understand and employ heuristics	How complex types of data is stored	Variables Logical Operators When to use control structures Testing Functions Parameters	Hex & bitmap Construct3 Scratch gamefroot Codeavengers MinecraftEDU Swift Play ground Text based programming	10				

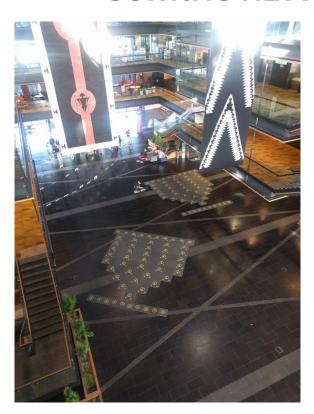
ACTIVITY SUGGESTIONS

OMGTECH! WORKSHOPS

We have trialled the following workshops with a range of children aged from five to eight. Let us know if you have any improvements or feedback, we are always willing to get better!

OMGTECH! OFFLINE

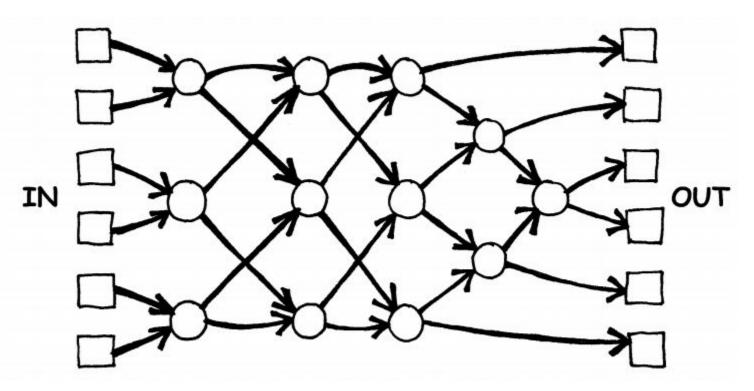
SORTING NETWORKS



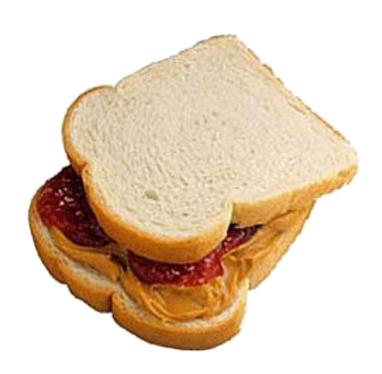


OMGTECH! OFFLINE

SORTING NETWORKS



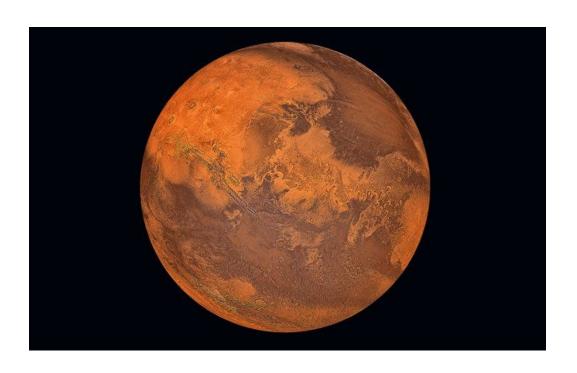
OMGTECH! OFFLINE MAKING A SANDWICH



OMGTECH! OFFLINE

OFF TO MARS!





MATHS AND THE RAINBOW



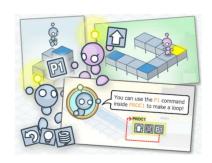
INTRODUCTION TO CODING

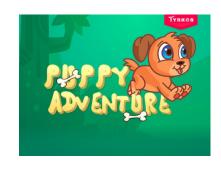
HOUR OF CODE



HOUR OF CODE







INTRODUCTION TO CODING SCRATCH JR



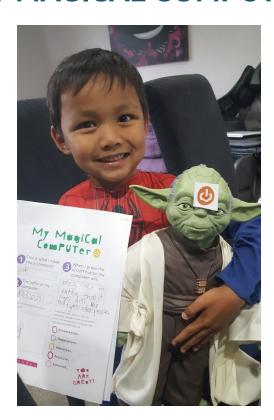
HELLO RUBY



HELLO RUBY WHAT DOES THE INTERNET LOOK LIKE



HELLO RUBY MY MAGICAL COMPUTER



HELLO RUBY JOURNEY INSIDE A COMPUTER

