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DIGITAL SPONSORS



WA DATA SCIENCE INNOVATION HUB









ROOM SPONSORS





PERTH COMMUNITY













The Highs and Lows of Teaching the Next Generation to Code

Courtney Weaver

Hands up if...

You graduated high school in 2020 or later

Hands up if...

You have children currently in school or who have graduated since 2020

Digital Technologies s

2018

Digital Technologies s

Kindy to Year 10

Digital Technologies s

Compulsory to end of Year 8

Algorithms

Algorithms



Basics of using Office applications (eg. Word, Powerpoint)

Does it include... Basics d using stfice application (eg. Word, Powerp@at)

Project Management

Project Management

Data Analysis

Data Analysis



Graphic design skills (eg. Photoshop, Canva)

Does it include... Graphic design kills (eg. Photoshop Janva

Data Representation (eg. Binary)

Data Representation (eg. Binary)

Block Coding (eg. Scratch, Blockly)

Block Coding (eg. Scratch, Blockly)

Basic OS Skills (eg. File/Folder Management)

File/Foller Magagement,

Basic OS Signs

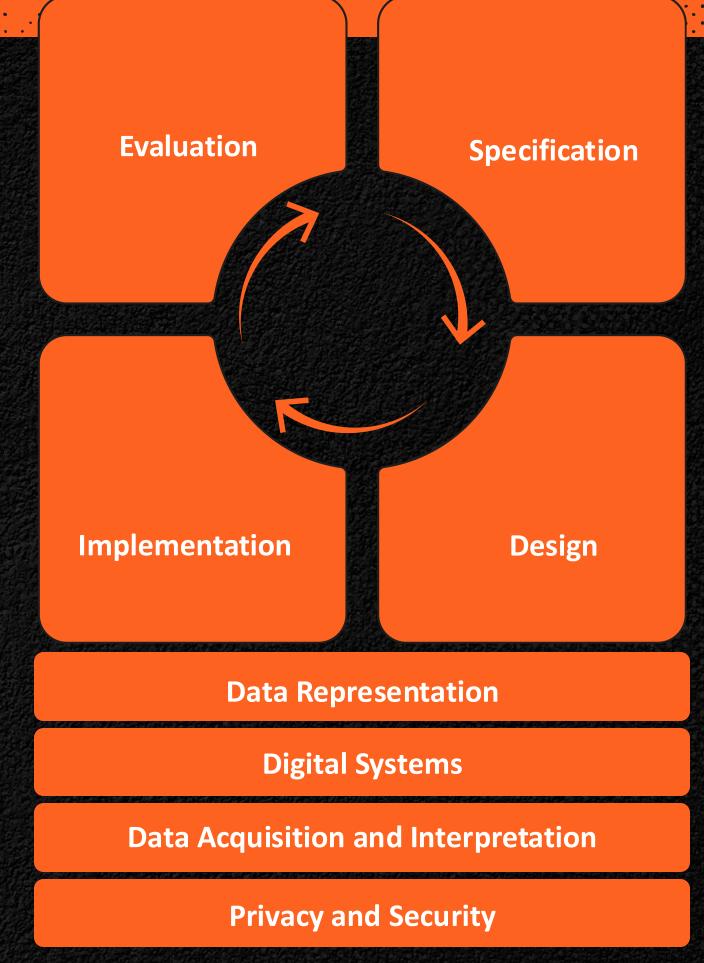
Typing

Does it include... Typing

Text-Based Coding (eg. Python)

Text-Based Coding (eg. Python)

Digital Technologies Curriculum



Adapted from Paula Christophersen: Digital Technologies in a Nutshell

	Kindy	1	2	3	4	5	6	7	8	9	10
Sequence											
Selection											
Basic Iteration											
Variables											
or, Repeat, While											
Nested Selection											
Functions											
Data Structures											
Logical Operators											

• •

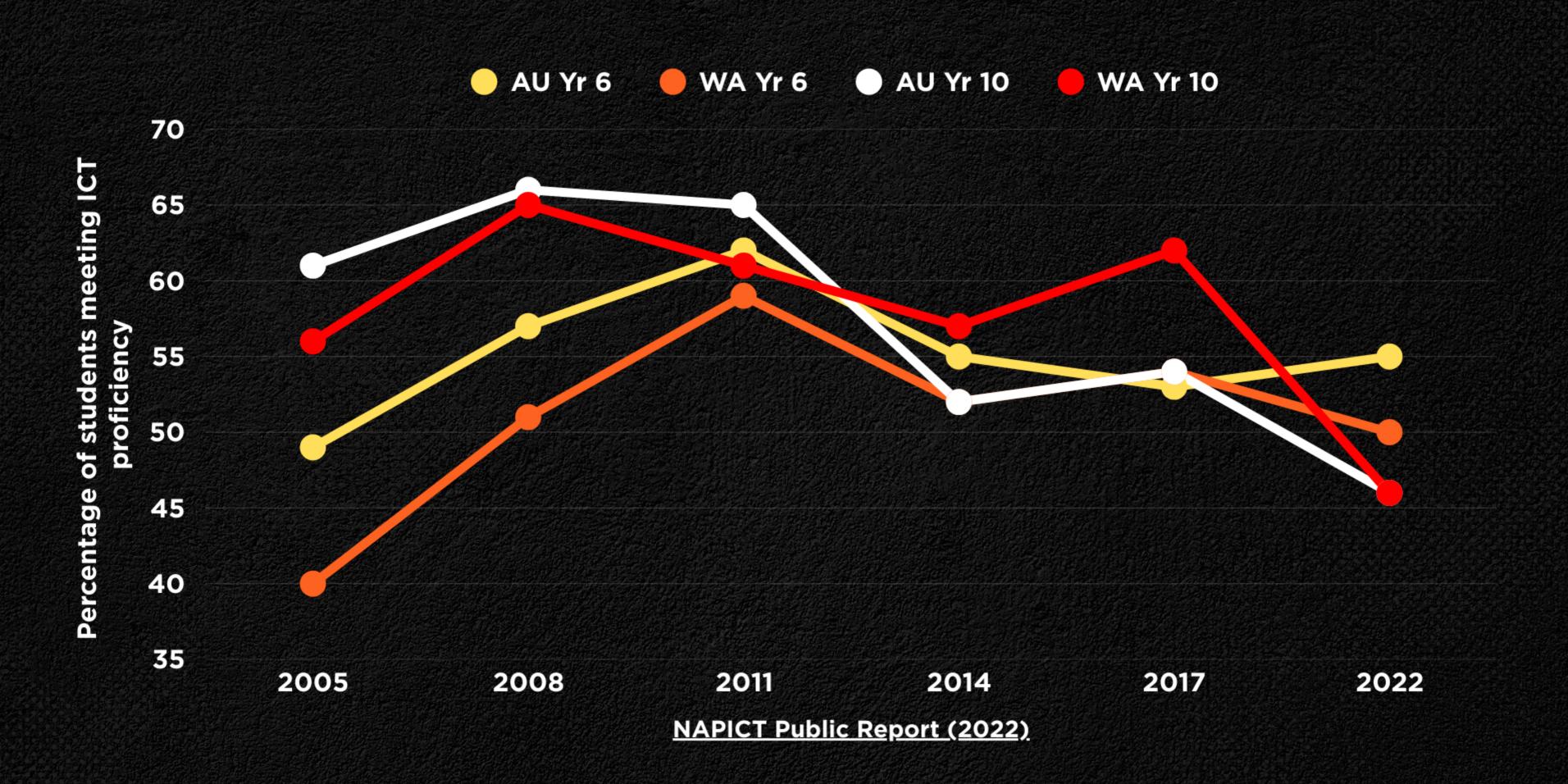
Digital Literacy General Capability Management operations Management operations operations Capability



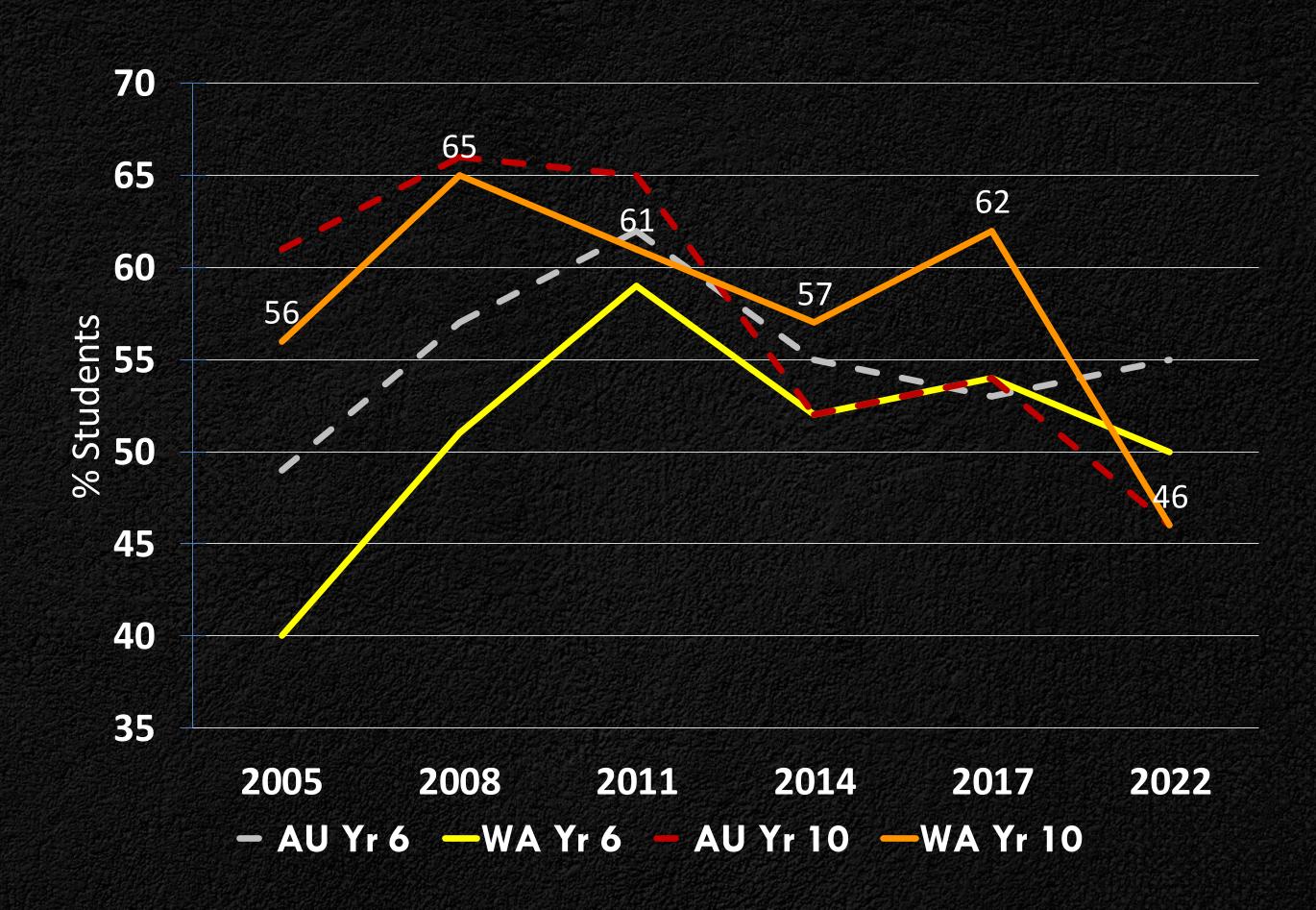


Copyrication Using a mouse Internet Searching File Management Turning a computer Reply vs Reply older Management Save vs Save As Typing

NAPICT – Percentage meeting ICT Proficiency



NAPICT – Students meeting ICT Proficiency

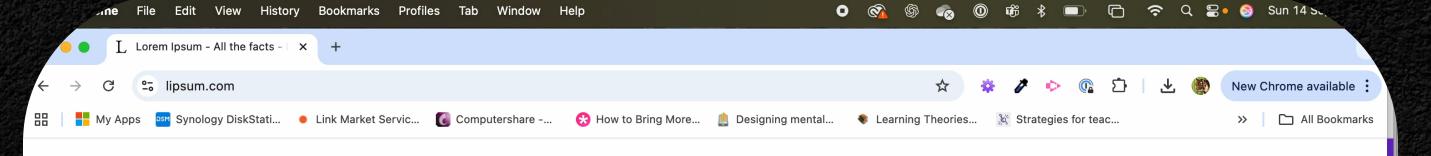


ICT Proficiency

The number of year 10 students in 2022 who DID NOT meet ICT Proficiency

What is ICT Proficiency?

Level	Sample Task	
6	Create a presentation for a target audience	
5	Improve the usability of a design by placing a button in a useful space	
4	Posts text from a webpage as a conversation thread in Teams	Yr 10
3	Can figure out a file name based on other file names.	
2	Identifies task duration on a Gantt chart.	Yr 6
1	Locates and clicks a link to a website in Teams	



Lorem Ipsum

"Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit..."

"There is no one who loves pain itself, who seeks after it and wants to have it, simply because it is pain..."

What is Lorem Ipsum?

Lerem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Where does it come from?

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical

Why do we use it?

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

Where can I get some?

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing hidden in the middle of text. All the Lorem Ipsum generators on the Internet

More than
122 000
15 year olds
can't do
this...

Why?

- iPads and phones
- Assumption of the Digital Native
- Teacher capability and confidence
- Equitable access
- Student behaviour
- Student literacy
- Loss of resilience and perserverance

What can you do as parents?

- Ask your kids about what they are learning in Digital Technologies at school
- Ask them about what they learn about the general capability
- Ask your school how they approach both subjects and if they understand the difference
- Get your kids involved at home!

What can you do as developers?

- Build education products that teach the how
- Build education products that don't eliminate productive struggle
- Volunteer to run coding clubs
- Volunteer to upskill teachers!

What can you do as "the industry"?

- Donate devices
- Run industry days teachers and students
- Contribute to ensure the curriculum aligns with your needs as an industry
- Create competitions for students to get their engagement
- Co-design resources

How to start?

ECAWA

Educational Computing Association of WA

www.ecawa.org.au

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Thank you

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