

PLATINUM SPONSORS



GOLD SPONSORS



VERSENT



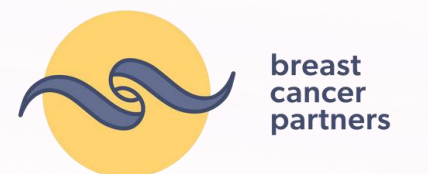
DIGITAL SPONSORS



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

An orange horizontal bar at the top of the slide, featuring a pattern of small white dots of varying sizes.

Digital Technologies

2018

Digital Technologies

Kindy to Year 10

Digital Technologies

Compulsory to end of Year

8

Does it include...

Algorithms

Does it include...

Algorithms



Does it include...

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

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application (eg. Word,
Powerpoint)



Does it include...

Project Management

Does it include...

Project Management



Does it include...

Data Analysis

Does it include...

Data Analysis



Does it include...

Graphic design skills (eg.
Photoshop, Canva)

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Graphic design skills (eg.
Photoshop, Canva)



Does it include...

Data Representation (eg.
Binary)

Does it include...

Data Representation (eg.
Binary)



Does it include...

Block Coding (eg. Scratch,
Blockly)

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Block Coding (eg. Scratch,
Blockly)



Does it include...

Basic OS Skills (eg.
File/Folder Management)

Does it include...

File/Folder Management,
Basic OS Settings



Does it include...

Typing

Does it include...

Typing



Does it include...

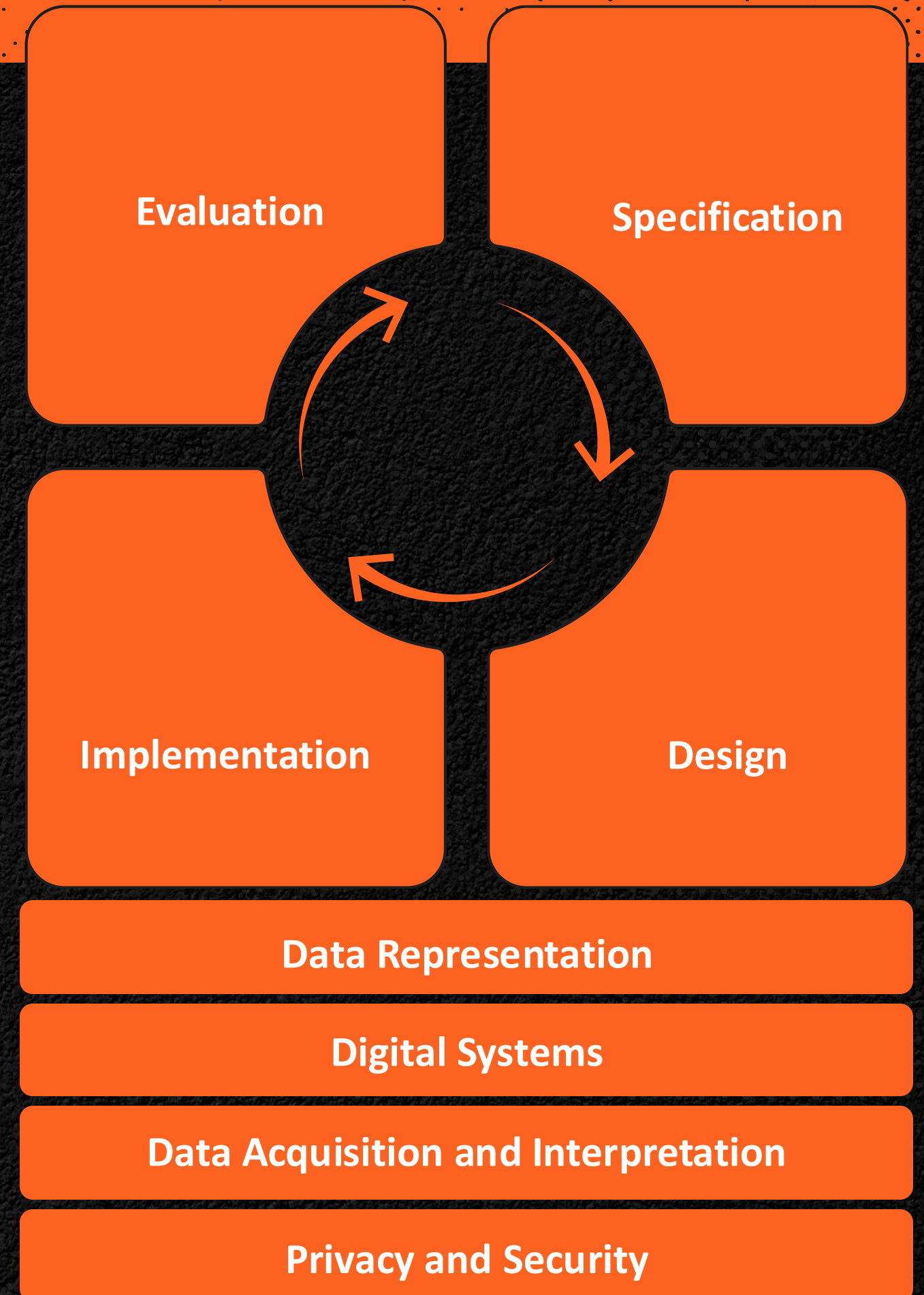
Text-Based Coding (eg.
Python)

Does it include...

Text-Based Coding (eg.
Python)



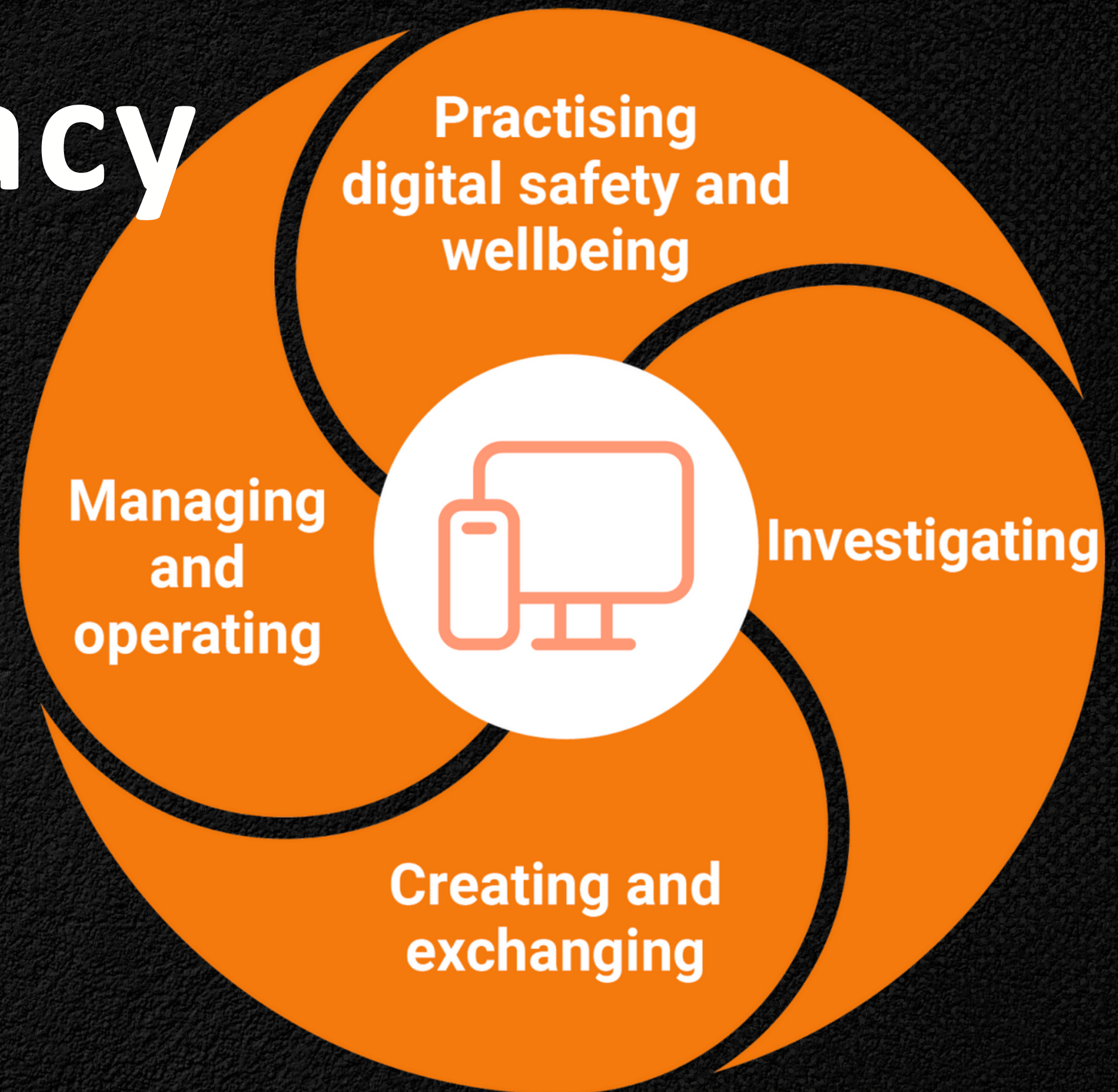
Digital Technologies Curriculum



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Digital Literacy

General Capability



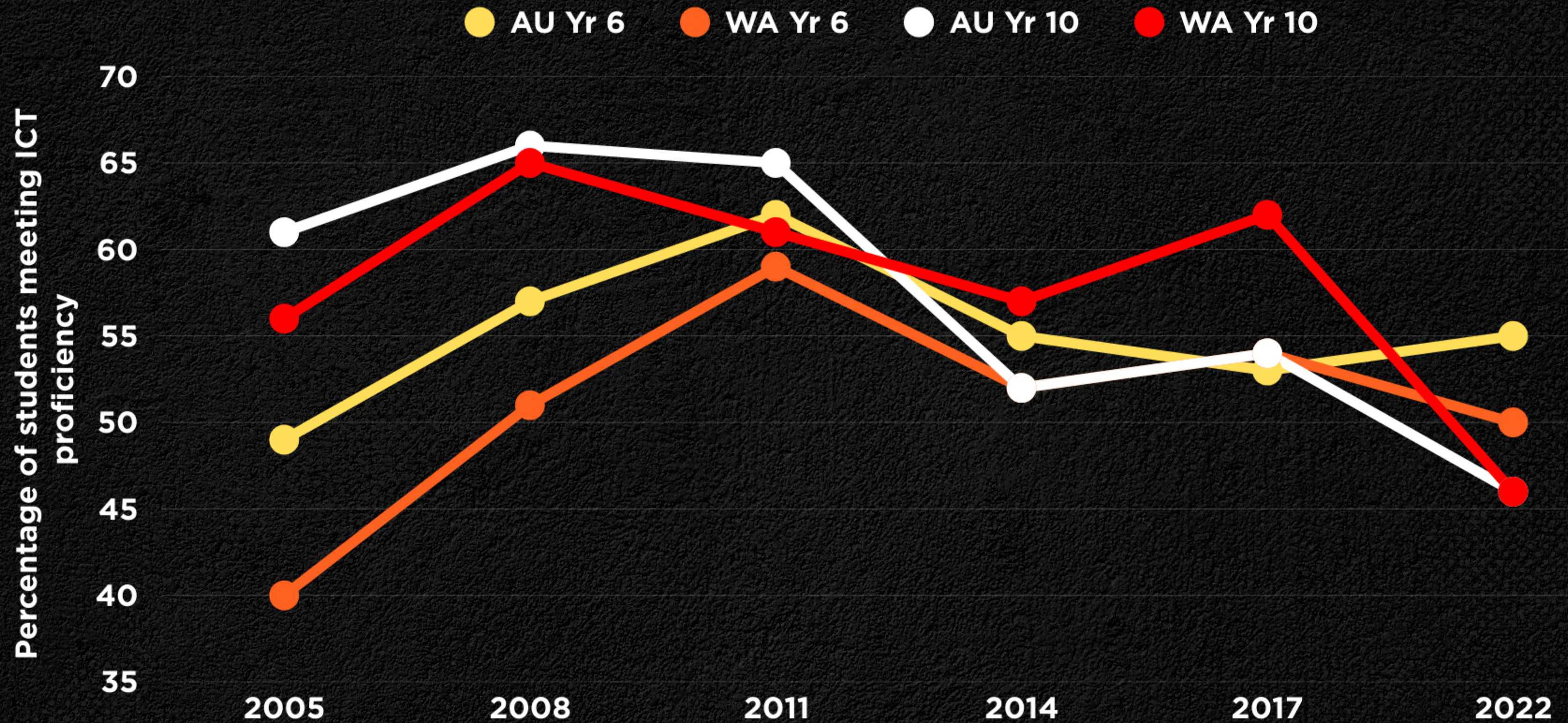


Application Skills

Using a mouse
Internet Searching
File Management
Turning a computer on
Reply vs Reply All
Folder Management
Save vs Save As
Typing

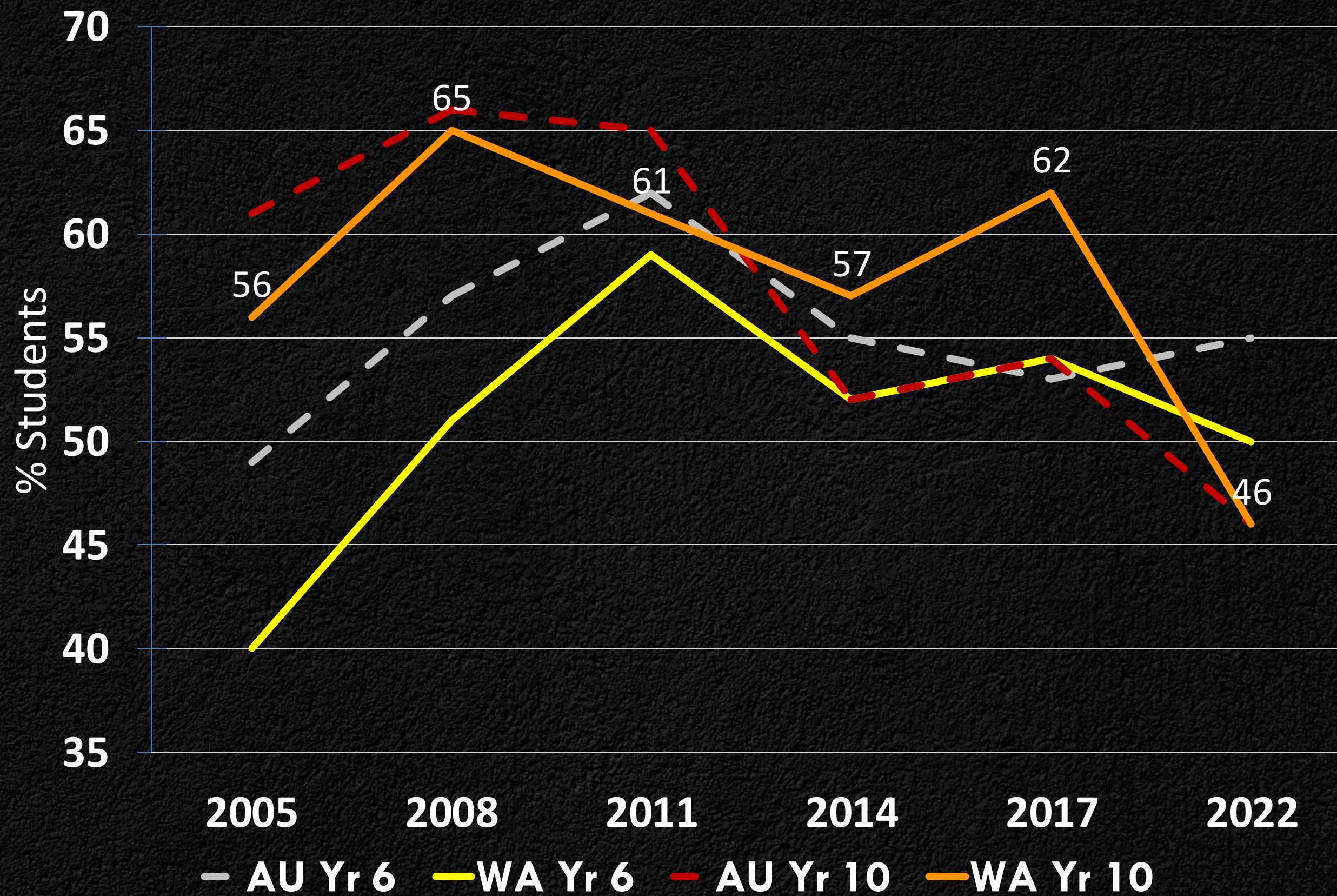
File Extensions

NAPICT – Percentage meeting ICT Proficiency



NAPICT Public Report (2022).

NAPICT – Students meeting ICT Proficiency



ICT Proficiency

54%

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

What is ICT Proficiency?

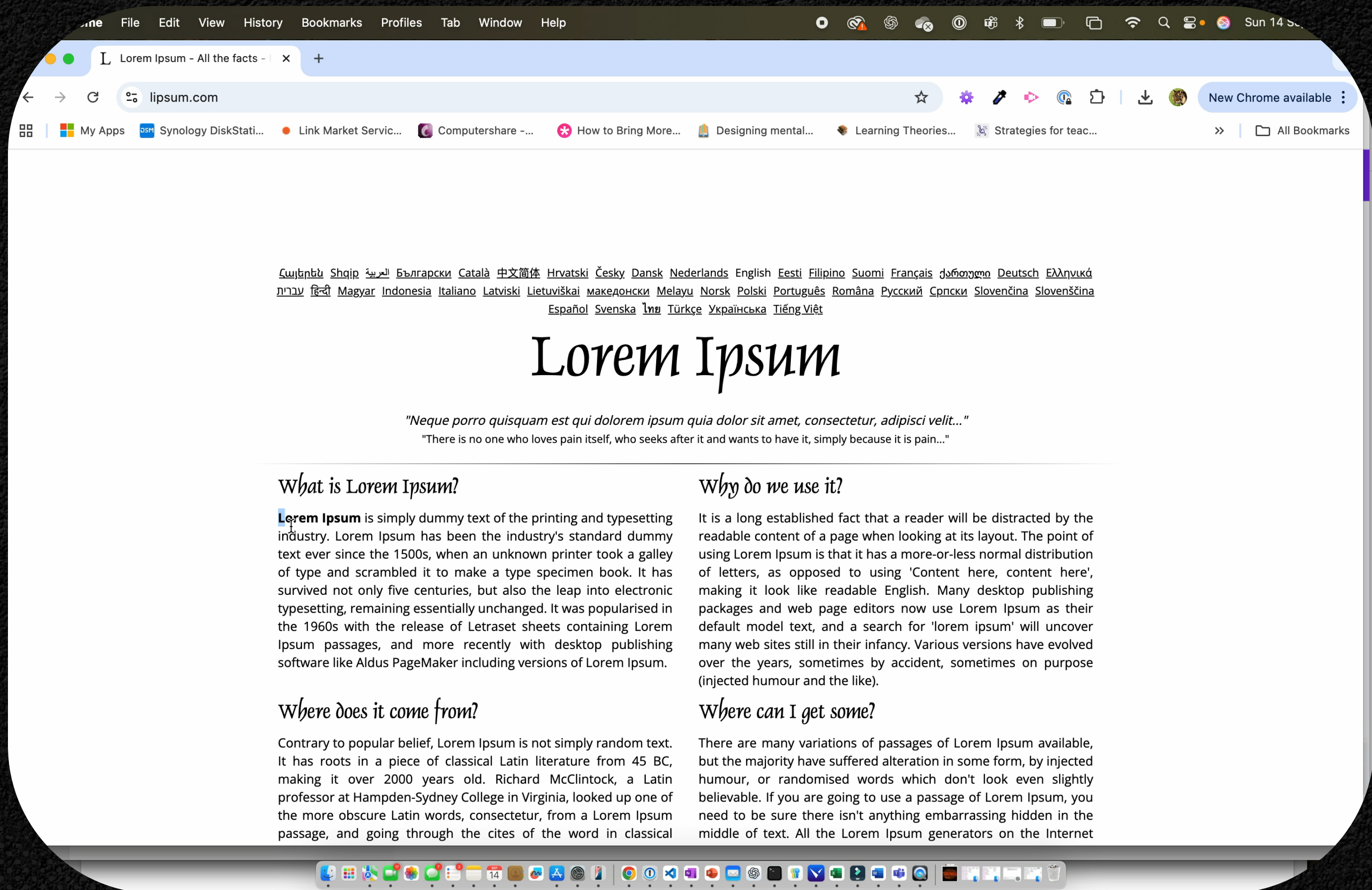
Level	Sample Task
6	Create a presentation for a target audience
5	Improve the usability of a design by placing a button in a useful space
4	Posts text from a webpage as a conversation thread in Teams
3	Can figure out a file name based on other file names.
2	Identifies task duration on a Gantt chart.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

Yr 10



Yr 6





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 perseverance

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

vicepresident@ecawa.org.au

Thank you



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