

Incursions: Secondary Cyber Security



Grades 7-12



Laptop with CHROME browser required



CYBER WARRIORS

Teaching kids about cyber security is vital in today's digital world, where online threats are common. Whether we like it or not, kids are exposed to malicious actors who infiltrate their gaming platforms and social channels, making it essential to teach them skills about digital citizenship, protection of personal information, safe online behaviours, and strategies to avoid risks like cyber bullying and hacking.

CyberPathways incursion programs teach essential online safety skills using a range of fun, hands-on activities in age-appropriate ways. Learning outcomes build in complexity covering essential skills, plus extension into technical skills and ethics of hacking to prepare them for future opportunities in today's tech-driven society.

Year 7 – Year 8 CYBER WARRIORS

Half Day

INCURSION CONTENT:

- Basic Cyber Security Principles
- Digital Citizenship + Internet Etiquette
- Safe Passwords + Phishing
- Cyber Bullying
- "A day in the life of an analyst"
- Ethical hacking & Encryption
- Social Engineering

Curriculum Sub-Strand:

Evaluating Privacy and Security

AC9TDI8P10

AC9TDI8P14

AC9TDI8P13

Students investigate personal security controls, including multi-factor authentication to protect their data if passwords are compromised, and they understand the impact of phishing and other cyber security threats on people and data. They investigate how data is transmitted via wired and wireless networks and explain the need for encryption to protect and secure data. They can manage their digital footprint.

HPE Curriculum:

AC9HP8P10

Plan and implement strategies to enhance their own and others' health, safety, relationships and wellbeing.

Year 9 – Year 12 CYBER SKILLS BOOTCAMP

1 or 2 day intensive OR weekly term after school program

INCURSION CONTENT

- Intro to Cyber Security Technical Skills
- Ethical Hacking & Encryption
- Open Source Intelligence (Information Protection and Digital Safety)
- Encryption, Password Strength & Password Cracking
- Blue Team - Capture the Flag
- Careers in cyber: future pathways

Years 9-10 Curriculum Sub-Strand:

Digital Systems

Acquiring, Managing and analysing data Privacy and Security

AC9TDI10P01

AC9TDI10K01

AC9TDI10P12

AC9TDI10P13

AC9TDI10P14

Students develop cyber security threat models and explore a software, user or software supply chain vulnerability; they apply the Australian Privacy Principles to critique and manage the digital footprint that existing systems and student solutions collect, and they use simple project management tools to plan and manage individual and collaborative agile projects, accounting for risks and responsibilities.