

# Learning Activity 2 – Extra Points Worth Highlighting

## 1. Cybersecurity as Dynamic & Evolving

- From *Jones et al. (2019)* → Cybersecurity isn't a **fixed term**; it's understood differently depending on **age, context, and culture**.
- From *Torrens video (2022)* → Cybersecurity threats **shift over time** (viruses in the past → ransomware, AI-driven attacks today).
- ⚡ Insight: This proves that cybersecurity is a **living discipline**, requiring **constant adaptation** in both design and human behaviour.

## 2. Human-Centered Nature of Security

- *Jones et al.* → Shows that perceptions vary (children think about cyberbullying, adults about workplace threats, seniors about scams).
- This reinforces that “**users are the weakest link**”, but also the most important factor in designing secure systems.
- ⚡ SBD link: Secure systems must be **usable and age-appropriate**, or people won't follow good practices.

## 3. Foundation Concepts from *Cybersecurity for Dummies* (Steinberg, 2020)

- Introduces the **CIA triad (Confidentiality, Integrity, Availability)** → foundation of *all* security models.
- Covers **common acronyms and terms** (DoS, VPN, SQL injection, etc.) → you'll need these as building blocks for later modules.
- ⚡ Point to stress: Without mastering these basics, it's impossible to engage with advanced topics like **threat modelling, secure coding, or zero-trust design** in later trimesters.

## 4. The “Why It Changes” Factor

- **Technology evolution**: New platforms (e.g., TikTok, IoT, AI) → new vulnerabilities.
- **Society evolution**: Increased digital dependence → wider impact of breaches (healthcare, elections, infrastructure).
- **Legal evolution**: Laws (GDPR, CCPA, LGPD) redefine what organisations *must* protect.
- ⚡ Key phrase to use: *Cybersecurity changes because threats, technologies, and social expectations evolve in parallel.*

## 5. Takeaway for Your Learning

- Cybersecurity is not just **technical knowledge** → it's about **context, human behaviour, and adaptability**.
- These readings/videos together show why “Secure by Design” isn't optional — it's the only way to keep up with changing risks.