

# CYBER CITY

Student Work Booklet

Week 1, Cyber Security Fundamentals

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iSTEM Stage 5 Specialised Topic – Cyber Security  
Student Work Booklet – Week 1

## Topic: Value of Data

### Activity: Cyber Security Fundamentals

What is Cyber Security?

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Why is it important?

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Whom does cyber security affect?

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## Activity: 15 Cyber Security Terms You Should Know

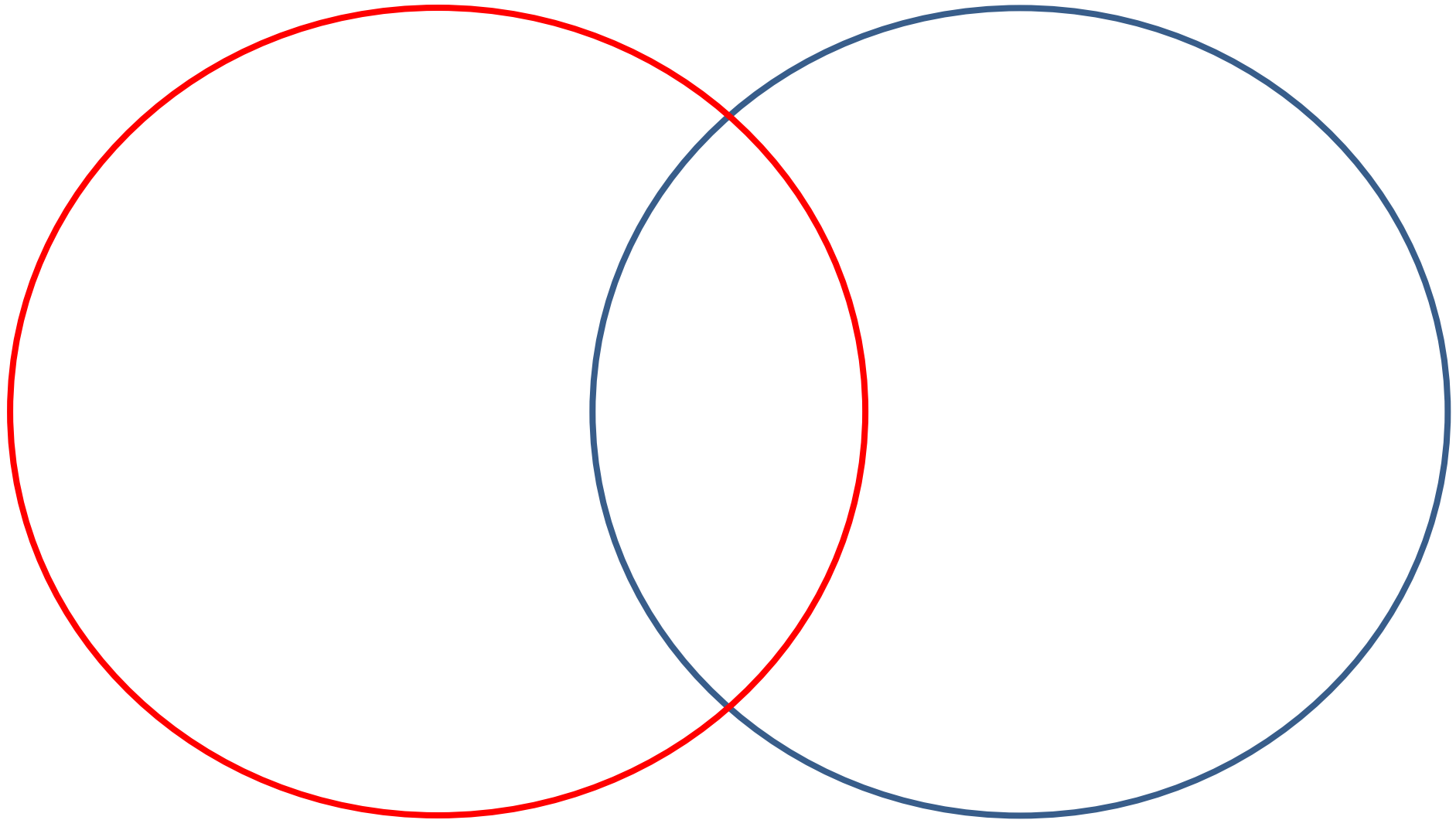
Match the terms to the correct definition from Video 1.1.3 - 15 Cyber Security Terms You Should Know, then provide your own real example.

Term	Definition	Example
User Authentication		
Encryption		
Anti-Virus		
Malware		
Firewall		
Phishing		
Multi-Factor Authentication		

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Denial of Service (DoS/DDoS)		
Ethical Hacking		
Ransomware		
Cyber Attack		
Cloud		
Network		
IoT (Internet of Things)		
Penetration Test		

**Class Brainstorm:** What is the difference (and similarities) between **data** and **information**?



## Class Discussion: Data

What is Data?

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What is Information?

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What makes data valuable?

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Value in data, Value from data, and value of data Do these three statements mean the same thing? Why/Why not?

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How does data have different values in different contexts?

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How does this change human behaviour to the items of value?

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## Topic: Ethics

Please answer the following questions per each scenario, found in the teacher's handbook.

### Scenario 1:

What are the behaviours that would be considered ethical and non-ethical in the scenario?

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Identify the different parties in the scenario.

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Justify their point on what they considered as ethical and unethical behaviour in one of the scenarios.



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Were any illegal actions/behaviours present in the scenarios? If not, what factors could make these scenarios illegal?

**Scenario 2:**

What are the behaviours that would be considered ethical and non-ethical in the scenario?

Identify the different parties in the scenario.

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Justify their point on what they considered as ethical and unethical behaviour in one of the scenarios.

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Were any illegal actions/behaviours present in the scenarios? If not, what factors could make these scenarios illegal?

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### **Scenario 3:**

What are the behaviours that would be considered ethical and non-ethical in the scenario?

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Identify the different parties in the scenario.

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Justify their point on what they considered as ethical and unethical behaviour in one of the scenarios.

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Were any illegal actions/behaviours present in the scenarios? If not, what factors could make these scenarios illegal?

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Michael is an employee of Racer Athletic Wear, he has taken a photo in the company's clothes and has advertised the clothing and tagged the brand, captioning the post with a deal that the company currently has is not worth it, even though someone with a company discount, he regrets making the purchase. He has posted the image to his personal social media; the company has asked for the employee to take it down.

Who owns the data?

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Who has the ethical responsibility to protect it?

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Is the behaviour of each party fair and ethical?

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Would your answers change if he was advertising the company in a positive way? If so why/why not?

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## Topic: Privacy

### Activity: Video Review

Using the knowledge from the video 1.3.2 The Mind Reader answer the following questions.

What data should be private?

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After watching the video, do you still think your previous data types should remain private, more? Less?

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## Activity: Define Privacy Terms

Term	Definition
Privacy	
Confidentiality	
Disclosure	
Anonymity	
Security	
Private Information	
Public Information	
Personally Identifiable Information (PII)	

Persona	
Identity Theft	

What is the relationship between Privacy and Confidentiality?

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What is the relationship between Privacy and Anonymity?

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What is the relationship between PII and social identity?

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What are the issues with publishing private information?

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Mimicking your own social media or how you would fill it out, fill out your 'social media page' of what is suitable to post. Label which parts can be private to friends or public for the world.

Reference: [Blank Facebook Template - 13+ Free Word, PPT & PSD Documents Download](#)


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facebook Wall Photos Name Logout

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Name



Wall Info Photos

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**Information**

Current City:  
Hometown:  
Sex:  
Birthday:  
Relationship Status: Married to Name or Single or Widowed from Name  
Employer:  
Education:  
Religion:  
Political Views:  
People Who Inspire:  
Favorite Quotations:  
Favorite Books:  
Activities:

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**Contact Information**

Address: Street, City, State, Zip Code

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Why have you made these choices?

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Is there a violation of privacy?

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# CYBER CITY

Summary of Week 1 - Create your own notes, understandings, definitions etc..

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# CYBER CITY

Summary of Week 1 – Create your own drawings, symbols, diagrams, visual notes etc.

