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## Student Work Booklet

## Week 5, Cyber City

# Topic: The Smart City or Place

## Videos

* Video 5.1.1 – A NSW SMART CITY and region in the making
* Video 5.1.2 – Meet Antonia Kendall, Director of Cyber Security, Western City Parkland Authority
* Video 5.1.3 – Antonia Kendall: What makes a SMART City or Place smart? And, the benefits for our NSW and Australian cities, towns and regions being or becoming SMART
* Video 5.1.4 – Antonia Kendall: The Cyber Security risk and considerations of being or becoming SMART Place and society.
* Video 5.1.5- Antonia Kendall: Cyber Security impacts on SMART Place setup & What happens if we don’t get Cyber Security right for SMART Places

## Video Review

From these videos create notes to better your context of the SMART City/Place

1. What is a SMART City or Place?

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1. How can our society benefit from adopting and implementing SMART Places and Cities?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. ­What are the key building blocks of a SMART City/ Place?

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1. ­What are a SMART Place / City Cyber Risks and how de we manage them?

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1. What happens if we don’t get cyber secuirty right in our SMART Cities/Places?

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Group Discussion

What is something in our community that we think could be improved with SMART City/Place thinking or networking?

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# Topic: Critical Infrastructure

## Group Discussion

Can you provide your definition or description of critical infrastructure?

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If the critical infrastructure assets listed below were to be compromised physically or digitally, what economic and social consequences do you think would result? Please share your thoughts with the class, using your completed notes as an outline.

1. Communications

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1. Financial services and markets

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1. Data Storage or processing

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1. Defence Industry

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1. Higer education and research

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1. Energy

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1. Food and grocery

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1. Health care and medical

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1. Transport

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1. Water and sewage

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1. Space Technology

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## Video Review

Video 5.2.1 - Critical Infrastructure Protection

What is your opinion on the measures taken by companies and governments to safeguard critical infrastructure?

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# Topic: Satellite Fundamentals

## *Before participating in the Cyber City tech learning experience, it is important for you to grasp some fundamental concepts of satellites as in the upcoming lessons you will have the opportunity to operate one.*

Small Group Discussion

In small groups research and provide and explantation of the following Cyber Secuirty Tools:

Firewall

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Antivrus Siftware

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Penetration testing

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Encryption

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Cyber Secuirty Education

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SIEM (System Information Event Management)

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Network Secuirty Monitoring

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## Video

* Video 5.3.1 - What If All Satellites Suddenly Stopped Working?
* Video 5.3.2 - Australia launches multi-billion smart satellite revolution.
* Video 5.3.3 - Cyberattack on Space: Why are space systems vulnerable to cyber-attacks?

## After watching the satellite video, reflect on and answer:

## What type of satellite will you be launching and flying? (What services will you be delivering?)

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1. Why did you choose to fly this type of satellite?

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Summary of Week 5 - Create your own notes, understandings, definitions etc..

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## Summary of Week 5 – Create your own drawings, symbols, diagrams, visual notes etc.