Questacon Cyber Castle Challenge - Quick Play Guide

Download the associated teacher and student resources for more detailed information, supporting activities and curriculum links.

Season 1: Defend your assets		Season 2: Evolving Threats	
Season Summary Students identify threats and begin to build their castle defences to protect their assets.		**Season Summary** Students identify and respond to new types of threats and learn to detect weaknesses in their defences.	
Youtube Season Introduction Season 1 - Defend Your Assets		**Youtube Season Introduction** Season 2 - Evolving Threats	
Cyber Learnings - Valuable data: such as documents, online identity, banking details, usernames, password etc., are assets. - Threats are people or things trying to steal assets (valuable data). - Cyber security is protecting assets from threats.		**Cyber Learnings** - Understand that threats can change. - Testing for weaknesses in your network's defences is important. - Gathered information (intelligence) is vital to improve defence strategies.	
Season 1 achievements:	**How students earn achievements:**	**Season 2 achievements:**	**How students earn achievements:**
1. Identify Assets	**1.** Bring a tamed chicken into the coop.	**1.** Gather Signals Intelligence.	**1.** Observe an alert on the virtual castle.
2. Identify Threats	**2.** Spot a fox.	**2.** Gather Human Intelligence.	**2.** Get information from the castle farmer.
3. Minimise Attack Surface.	**3.** Repair all the inner castle walls.	**3.** Manage Evolving Perimeter.	**3.** Place a scare-a-saurus near an outer farm.
4. Construct Layered Defences.	**4.** Start building the outer walls.	**4.** Penetration Test for Vulnerabilities.	**4.** Use a cyber fox to test the castle defences.
Season Debrief *Discuss the following:* How did the chickens and foxes relate to cyber security? What are some types of assets you have online? What are some types of real-life threats that may try to steal your assets? In the challenge you had a way to defend your chickens from foxes. What steps can you take to defend your online assets from threats?		**Season Debrief** *Discuss the following:* How did fox behaviour change this season? Why is it important to be aware of evolving threats? How might you find information about threats in real-life? It was important to test your defences for weaknesses to improve your defence strategies. How do you currently protect your online assets? What weaknesses do these strategies have? How could you improve your protections.	
Code to Launch* Season 2 /tag @s add tXR4i8ivsG		**Code to Launch* Season 3** /tag @s add PNst51uDa9	

*To launch the next season, in game press T, then type the code and press enter.

Season 3: Kingdom expansion		Season 4: Who can you trust?	
Season Summary Students discover the importance of networks for sharing resources and work to protect and implement access controls for those in their extended network.		**Season Summary** Students detect, respond to and train others to recognise suspicious behaviours.	
Youtube Season Introduction Season 3 – Kingdom Expansion		**Youtube Season Introduction** Season 4 – Who can you trust?	
Cyber Learnings - Networks share and receive data. - Networks can be secured using access controls. - There are different types of access controls: such as passwords, passphrases, pins, biometrics, Multifactor Authentication, and firewalls.		**Cyber Learnings** - The behaviour of others online might threaten personal safety. - Shared information about threats and defences strategies improves cyber security. - Train others to recognise scams, phishing, and social engineering attempts for better network security.	
Season 3 achievements: **1.** Access Identity Management. **2.** Defend your wider network. **3.** Security Awareness Training. **4.** Patch a Breach.	**How students earn achievements:** **1.** Install a scanner in the castle. **2.** Give a travelling trader a cyber fox. **3.** Teach the castle passcode to a travelling trader. **4.** Fill a tunnel created by a digging fox.	**Season 4 achievements:** **1.** Encrypt your assets. **2.** Detect strange behaviour. **3.** Identify fraudulent behaviour. **4.** Rebuild after a malware attack.	**How students earn achievements:** **1.** Give chickens disguises. **2.** Teach the farmers to recognise scams. **3.** Teach a farmer to recognise a suspicious trader. **4.** Rebuild the castle walls after a major breach of defences.
Season Debrief *Discuss the following:* In this season, you had to defend your outer villagers, or a wider network. What computer networks do you know of? How can you control access to and secure computer networks? This season you had to be careful with inputting your castle passcode. Why is it important to have a strong password? What could you do if someone learns your password?		**Season Debrief** *Discuss the following:* What kind of scams did you come upon in the challenge? Have you or your family fallen prey to, or heard about, online scams? During this season you supported others to identify scams or suspicious behaviour. What steps can you take to support family and friends in identifying and being aware of scams?	
Code to Launch* Season 4 /tag @s add 3acqesntuo			