

Computing

Lesson 6: Network Speed and Performance

KS4 Networks

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¹ Materials from the Teach Computing Curriculum created by the National Centre for Computing Education



Task 1 - True or false

Decide if the following statements about broadcast traffic are true or false.

Statement	True or False?
If there are too many computers added to a network, the amount of broadcast traffic reduces.	
Broadcast traffic can be controlled by moving from hubs to switches.	
Faulty devices have little to no impact on broadcast traffic.	
Broadcast is a method of transmitting a message to all nodes on the network simultaneously.	
ARP (address resolution protocol) is used to find devices and map IP addresses to hardware addresses.	



Task 2: Advantages of a VLAN

Write down three advantages of a VLAN.

1.

2.

3.



Credit: Pixabay



Task 3 - Cyber attacks

With computer networks being so prevalent in today's modern world and almost ubiquitous access to the internet from computers and mobile devices, criminals have begun to target these networks far more frequently.

Follow this link

oaknat.uk/comp-cyberattacks

and read some of the articles, then fill the table on the next slide.



Task 3 - Cyber attacks

Complete the tables on the next two slides.

Why do criminals target networks?



Task 3 - Cyber attacks

How do criminals target networks?

