

SUBJECT		YEAR	TERM
Computer Science (OCR)		10	2
UNIT			
Networking			
INTENT			
PRIOR LEARNING (TOPIC) – Pupils may have pre-existing knowledge on this topic from their learning outside of lessons, however, this is not a requirement.			
Be they small scale, such as those in our homes, or much larger like The Internet, networks in all forms are key for modern communication. This unit looks at some of the fundamentals of networking, including how networks are setup and how data is transferred across them.			Specification Points: This unit covers points 1.3.1 and 1.3.2.
FUTURE LEARNING (TOPIC): Software, Security and Law			
IMPLEMENTATION		IMPACT	
Throughout the unit pupils will cover: <ul style="list-style-type: none">• Types of networks.• Factors impacting network performance.• Network hardware.• How The Internet works.• Encryption.• Common network protocols.		Assessment: Pupils will sit a 40 mark in-lesson assessment at the end of the unit, the score from which will be translated into a 9-1 style grading. In addition to this, pupils will complete regular exam style questions both during lesson and as part of homework tasks.	
HOW CAN PARENTS HELP AT HOME?			
All course materials are available via Firefly. In the build-up to the assessment, parents can help by supporting their child’s revision. This can include testing them using flash cards or simply getting them to explain topics to you.			
HELPFUL READING/FURTHER DISCUSSION			
READING/EXTRA-LEARNING There are an enormous number of online courses and tutorials to help pupils develop their computer science skills further. Visit the Next Steps section of the Computing department’s Firefly page for more details.		CAREERS This unit leads perfectly into careers such as network engineer or network administrator.	WIDER SKILLS Digital Literacy Resilience
VOCABULARY			
LAN, WAN, Client, Server, WAP, Router, Switch, NIC, DNS, Cloud, Topology, Wi-Fi, Ethernet, Encryption, IP, MAC. Protocols. Lavers			