Year 7 Spring 2 Computing: Networks

A) Key knowledge		B) Key knowledge		C) Key knowledge		D) Literacy
Computer network	A computer network is when two or more computers are connected together to allow them to communicate	**Hardware component**	Any physical part of a computer system that you can touch	**Wired data transmission**	A computer network can be either wired or wireless. Wired networks send data along cables	Describe why it would be best to use a wireless network in a café [3]. Describe why it would be best to use a wired network in a classroom [3].
Device	Any computer connected to a network	**Network cable**	Cables connect different devices together - data can be sent in both directions across a cable	**Wireless data transmission**	A computer network can be either wired or wireless. Wireless networks send data through the air using radio waves	
Email	Electronic mail, sent from one device to another and stored on a server	**Hub**	A hub connects a number of computers together	**Download**	Your computer is receiving data (e.g. browsing a web page, watching online videos)	
Protocol	All methods of communication need rules in place in order to pass on the message successfully. These sets of rules are called **protocols**	**Router**	When a network needs to be connected to another network over a large area, a router is needed. A router forwards messages from one network to another	**Measuring bandwidth**	Bandwidth is measured in bits per second (a bit is the smallest unit of data)	
Web address	Contains information about the location of a web page	**Server**	A server is a powerful computer which provides services. There are many different types of server, e.g. a file server which stores files (i.e. text, images, sound, or video) that can be accessed by all devices on the network	**Bandwidth**	Bandwidth is the amount of data that can be moved from one point to another in a given time. Higher bandwidth = more data per second	
Homework: Look/cover/write and self-mark the information from Section A		**Homework:** Look/cover/write and self-mark the information from Section B		**Homework:** Look/cover/write and self-mark the information from Section C		**Homework:** Literacy task