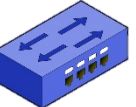


Year 3 Computing – Connecting computers

Vocabulary			Knowledge	
Computer	A machine that processes information and follows instructions		<u>Computer networks:</u> A network is when computers and devices are connected so they can share information. Networks are used in schools, homes, offices and large buildings. This is because the networks make it easier for people to work together and share resources. <u>Connecting devices:</u> Devices can be connected in two main ways: - Wired connections – using cables to connect computers - Wireless connections – This uses signals instead of wires. Both types of connection allow devices to share data. <u>Networks:</u> A network has different parts that help it run. - A switch connects computers together in a local network - A server stores information and shares it with other computers - A client is a computer or device that uses the server's information - A router connects networks to each other and often links to the internet. When computers send information, they send it as data. Data is broken into small pieces called packets. These packets travel through the network and are put together at the other end. Networks are useful because they allow computers to communicate and share information, such as files, websites or messages. This allow people to work more efficiently, play games together or connect with others across the world. A Local network (LAN) is a small network in one place such as a school or home. The internet is a global network that connects millions of computers all around the world.	
Device	An electronic tool like a computer, tablet or phone			
Network	A group of computers or devices that are connected together			
Connection	The link between computers that allows them to share information			
Cable	A physical wire that carries data between devices			
Switch	A device that connects computers in a network so they can send information to each other			
Server	A powerful computer that provides information to other computers on a network			
Internet	A worldwide network that connects computers together			
Router	A device that sends information between networks			
Data	Information that computers store, send or receive			

Quizzing		Quiz at home	
Ask your partner the questions below. Can they find the correct answer on the right-hand side?		Ask your adult to look at the KO.	
What type of connection uses signals?	Server	Quiz them using the vocabulary and knowledge section or the quiz questions. • Can they beat your score? • Can they score more than 5? 10? • Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.	
What do we call the small pieces of data that travel through a network?	Connects networks together		
What device sends information between networks?	Data		
What does a router do?	Internet		
what type of network is found in a building like a school?	Wireless		
What is a powerful computer that shares information with others?	Switch		
What do we call information that computers send and receive?	Router		
Which device links computers together in a local network?	Local network (LAN)		
What is the global network that connects millions of computers?	Packets		
BIG Questions		Beat the adult	
1. How is a local network different from the internet? 2. How do routers and switches help computers share information? 3. Why is data broken into packets when it is sent? 4. Why is it useful to share files through a server? 5. How do computers in a network communicate with each other?		Your teacher can give 10 facts in 1 minute about this topic. How many can you give to your partner? 	
Word scramble		Creative Tasks	
Unscramble the key vocabulary from this topic below. You can create your own at the bottom		1. Use a blank copy of the KO to fill in the missing information. 2. Build your own network – use paper, strong and cardboard to make a model of a network. 3. Draw a map showing how your home devices connect to the internet.	
tupcmore			
ecivde			
enrkotw			
cotneiocrn			
bleca			
hiscwt			
erervs			
rtntniee			
uteror			
taad			
		Word search	
		Y S S W I T C H X R E T H X E J Z N V E E U E X S I L C O M P U T E R X X N J S G L Y U I Z E N C O N N E C T I O N H I G N G J B E C A B L E D D E V I C E Z W V W C K M J Y J N E T W O R K T	Switch Cable Computer Device Network Connection

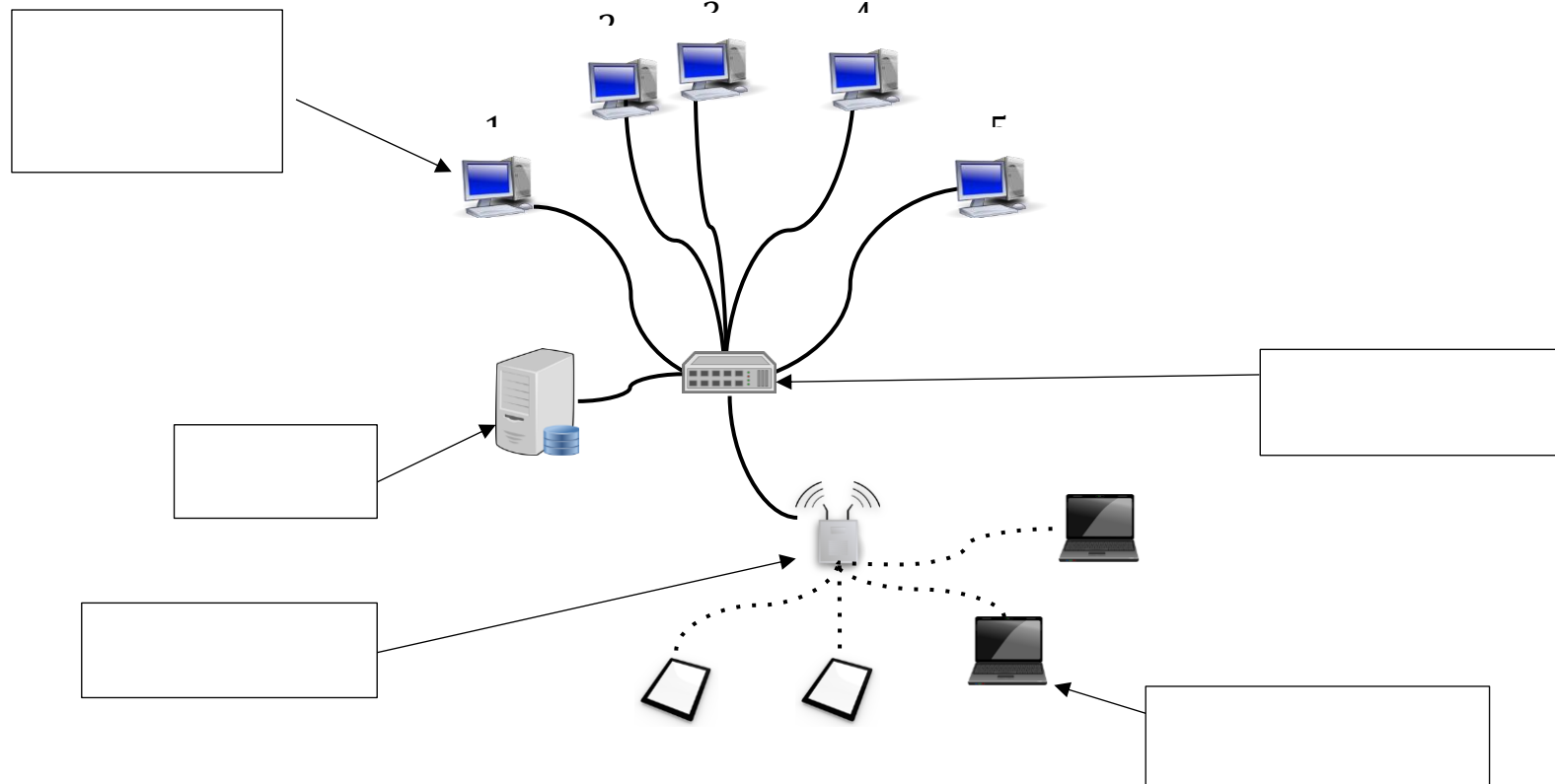
Fill in the gaps using the given words.

1. A group of computers connected together is called a _____
2. A small network found in one building is called a _____
3. Networks allow computers to _____ information
4. A connection that uses cables is called _____

Wired
Network
Share
Local network

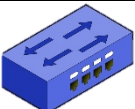
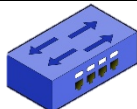
Label the diagram

Label each part using vocabulary from the knowledge organiser



Knowledge	Knowledge
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Write the definition for each of the following words			Write the vocabulary word for each definition		
Vocabulary			Vocabulary		
Computer				A machine that processes information and follows instructions	
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Network				A group of computers or devices that are connected together	
Connection				The link between computers that allows them to share information	
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