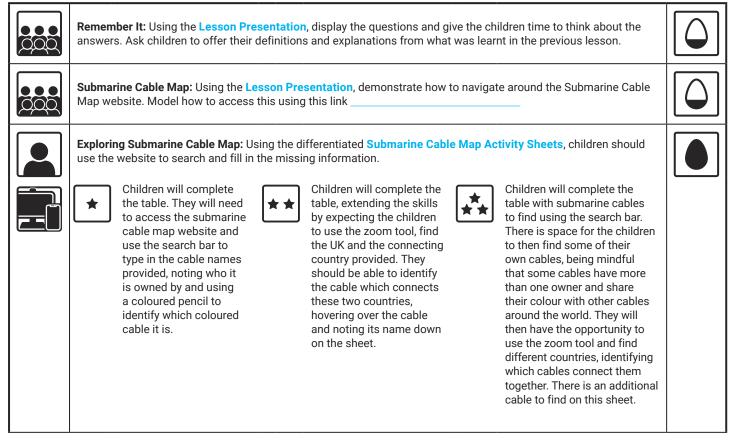
#### Online Searchers and Surfers: How the Internet Works

National Curriculum Understand computer networks, including the Internet; how they can the World Wide Web, and the opportunities they offer for communica Aim To understand how the Internet works.		Lesson Duration It is estimated that this lesson will take approximately 60 minutes.
Success Criteria I can explain how data is transferred from one point to another when using the Internet. I can understand what packets of data are. I can explain what an IP address is. I can explain what routers are and their function.	Key Vocabulary Internet Protocol address (IP addr data, fibre-optic, packet switching, submarine cables, web page, webs	protocols, routers,
Resources Lesson Pack PC devices, such as laptops, Chromebooks and/or tablets String, tape or chalk Pencils and colouring pencils Scissors Plain A4 paper	Preparation Differentiated Submarine Cable M Differentiated Packet Switching A It would be beneficial to access th lesson begins:	ctivity Sheet- one per child

**Prior Learning:** In the previous lesson, the children will have learnt about what the Internet is and how it travels from the home, to a web server across the world and back home again. They should understand the differences between the Internet and the World Wide Web, as well as knowing which devices connect the Internet and what we use it for.

#### Learning Sequence



	<b>IP Addresses:</b> Using the Lesson Presentation, explain to the children what the term IP address (Internet Protocol address) means.				
	How Are Packets of Data Sent?: Using the Lesson Presentation, explain what happens when a search request is made.				
	<b>Changing Routes:</b> Using the Lesson Presentation, discuss with the children what happens when packets of data get sent from the computing device via different routes.				
	Let's Represent How the Data Travels: For this activity, the children can role-play how data packets travel from a computing device to a web server. It is suggested that the class be split into two large groups or large groups suited to the class size. Using one piece of A4 plain paper per group, cut this into pieces and label each piece with a letter: A, B, C, D, etc. This represents how the image being requested started as a large piece of paper, cut down into smaller, more manageable pieces to pass along the network. Each child will pick up a small piece of paper with a letter on it and move their way via a route to the web server. They may choose different routes, arrive at different times and in any order. When at the web server, they must rearrange and stand in the correct order. To establish a route between the computing device and web server, children could use tape, string or chalk. You could use items to represent routers, such as pencils, bean bags or chairs. This will allow them to see how they can travel along a route effectively. Can the children explain what an IP address is?				
	Packet Switching: Using the Lesson Presentation, demonstrate how data packets can travel along different routes from one point to another. Highlight the blockage and how to overcome this. Can the children explain what a router is and what its job is?				
	<ul> <li>Packet Routes: Using the differentiated Packet Switching Activity Sheets, the children will have the opportunity to look at the many different routes that packets of data can take from one server to another.</li> <li>The children will use the diagram to answer questions, asking the children to find the quickest and slowest routes and slowest routes from point A to H.</li> </ul>				
<b>Explore</b> it					
I '	Debugit:       Create a diagram like the ones from the slowest routes between two points. Then, show the quickest route from A to K which is deliberately incorrect. Ask somebody to check this and write down the correct route instead.				
Findit:	It: Children can find more submarine cables that connect around the world using the They can take this a step further by creating questions for their friends, asking them to find cables that connect to other countries, finding more owners of cables and identifying cable colours. Some cables share the same colour, so children need to be mindful of this when completing this task.				
Routeit:	Children require access t where they can play the The children the opportunity to identify the shortest and longest routes for packets of data to travel from one point to another.	will have			
Assessm	ent Notes:				

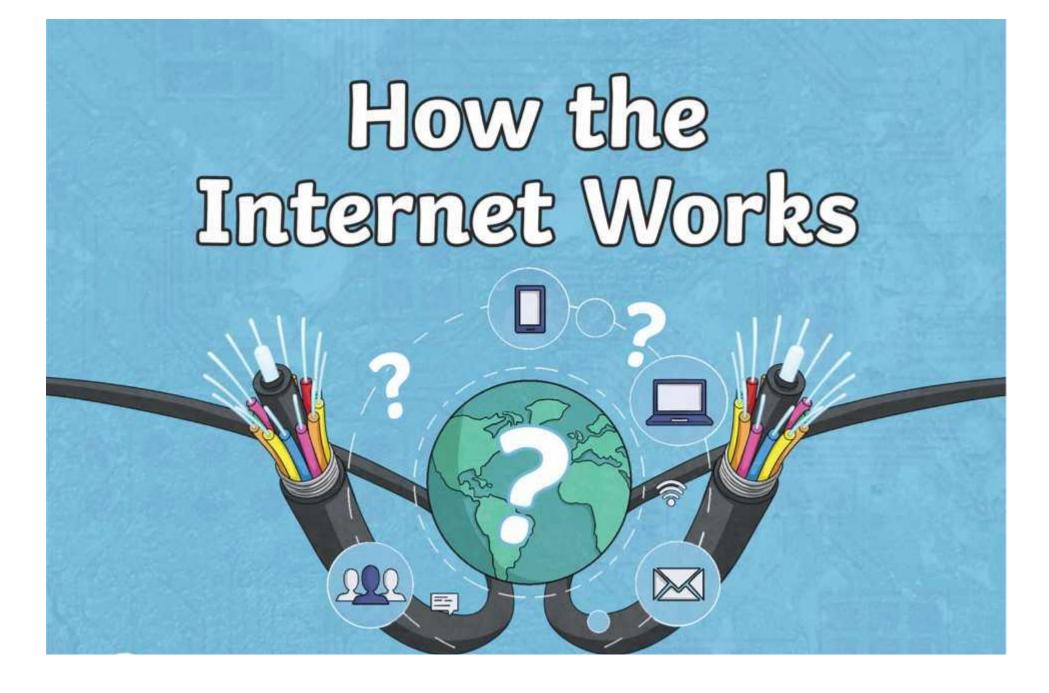
#### Disclaimers

This resource contains links to external websites and/or external apps. Please be aware that the inclusion of any link in this resource should not be taken as an endorsement of any kind by Twinkl of the linked website and/or app, or any association with its operators. You should also be aware that we have no control over the availability of the linked pages and/or apps. If the link is not working, please let us know by contacting TwinklCares and we will try to fix it although we can assume no responsibility if this is the case. We are not responsible for the content of external sites and/or external apps.

We hope you find the information on our website and resources useful. This resource refers to the use of scissors. You are responsible for the safe use of these resources including following any manufacturer's instructions or guidance. We are not responsible for the health and safety of your group or environment and so, insofar as it is possible under the law, we cannot accept liability for any loss suffered by anyone due to the use of this resource. Activities listed within the resource (including, but not limited to, using sharp items such as scissors or other tools) should always be supervised by an appropriate adult. By using this resource, you acknowledge that it is the responsibility of supervising adults to ensure the safety of children in their care and that we will accept no liability as a result of the activity.

# **Computing** Online Searchers and Surfers

Computing | Online Searchers and Surfers| How the Internet Works | Lesson 2



### **Question Marks**

This is Quizby. He is a question mark who loves to ask questions.



When you see a question mark icon like this in the **Lesson Presentation**, it can be clicked on to reveal one of Quizby's questions.



The questions that appear next to these question marks will help you to think about the key learning throughout the lesson.

#### Aim

• To understand how the Internet works.

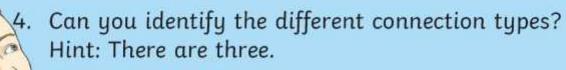
### **Success Criteria**

- I can explain how data is transferred from one point to another when using the Internet.
- I can understand what packets of data are.
- I can explain what an IP address is.
- I can explain what routers are and their function.

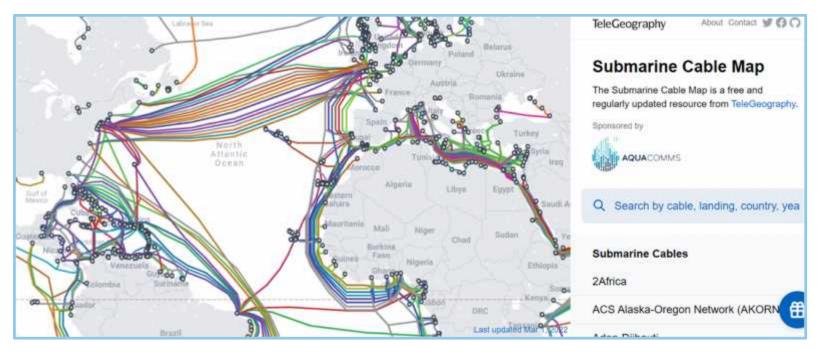
#### **Remember It**

Let's see what you remember from the last lesson.

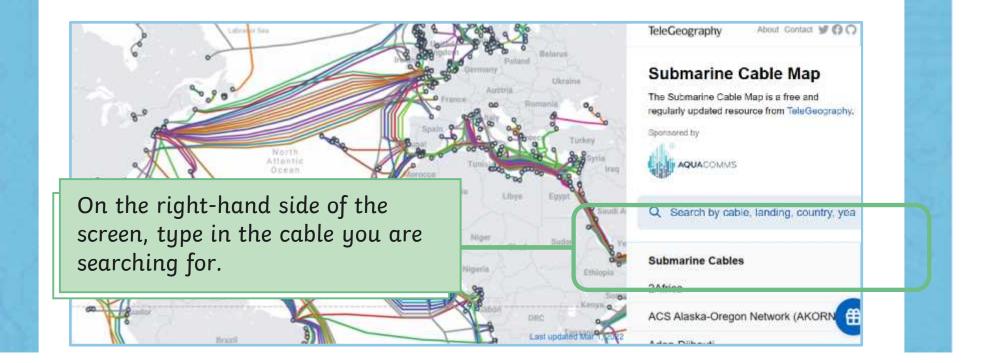
- 1. What is the Internet?
- 2. What is the World Wide Web?
- 3. Who was involved in the creation of the Internet?



The Submarine Cable Map by TeleGeography shows where all of the submarine cables connect around the world. These cables are fibre-optic cables which use light to increase speed and are installed on the ocean bed.



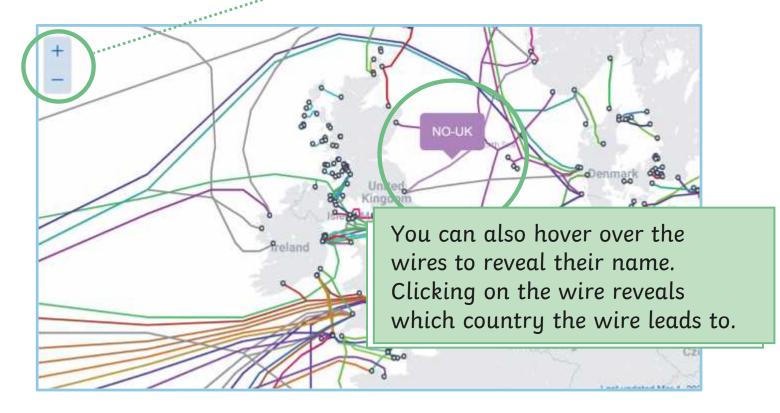
Let's have a look closer at how you can search for a cable.



After you have typed in the cable name and clicked 'search', look here to see the owner.



When looking on the map, you click on the + and – buttons to zoom in and out on the map.



### **Exploring the Submarine Cable Map**



It's your turn to have a go and explore. Identify different cables that connect the UK to other nearby countries. Remember to use the zoom tool to zoom in and out.

Sub Sul		$\square$	Submarine Cable M	and the second se
our task is to use the websi glou can about the Intern reas the workst.		as you can about the Inte across the world.	hsite to collect as much information rnet and how it connects computers right-hand side to first trosse cables. f your own.	Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. co.uk/r/iiiaon
the search bar on the rig n, try and find three of y	Use the search bar on the	Cable	Owned by	Colour
	Then, try and food three of	e.g. Atisa	Docomo Pacific	1
Cable		Curie		
g, Atim	Cable	EAC-C2C		
win	e.g. Ating	ESAT-1		
C-C2C	Curie	4		
AC-620	Curie EAC-C2C	The state of	rivaling ( billio for the Land Taches, river the Hard Wend ()	
		~		
	EAC-G2C	~		
IAT-1	EAC-G2C	~		ap
йЛ	EAC-C2C ESAT-1 What is the name of the	Your task is to use the we as you can about the Inte across the world.	Submarine Cable M To understand have the Internet works bisite to collect as much information rnet and how it connects computers.	Access a web browser Search for and click on Submarine Cable Map
AT-1 hat is the name of these ble connecting to the oth	EAC-C2C ESAT-1 What is the name of the sable consisting to the s UK T	Your task is to use the we as you can about the Inte across the world.	Submarine Cable M To understand have the Internet works bisite to collect as much information rate and how it connects computers right-hand side to find these cobles.	ap OOO Access a web browser Search for and click on
at is the name of these is connecting to the oth	EAC-C2C ESAT-1 What is the name of the sable connecting to the s UK T	Your task is to use the we as you can about the Inte across the world. Use the search bar on the	Submarine Cable M To understand have the Internet works bisite to collect as much information rate and how it connects computers right-hand side to find these cobles.	Access a web browser Saarch for and click on Submarine Cable May https://www.twinkl
at is the name of these is connecting to the oth	EAC-C2C ESAT-1 What is the name of the sable consisting to the s UK T	Your task is to use the we as you can about the Inte across the world. Use the search bor on the Then, try and find three o	Submarine Cable M To understained have the Internet works beite to collect as much information read and how it connects computers right-hand side to find these cobles. If goar own.	Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. es.uk/r/tilinon
at is the name of these ale connecting to the oth UK i LIK B	EAC-C2C ES47-1 What is the name of the cable connecting to the e UK 1 UK	Vour task is to use the we as gos can about the line across the world. Use the search bor on the Then, try and fend three o Cable	Submarine Cable M To understated have the Internet works batte to collect as much information mat and how it connects computers right-hand side to find these cobles. If your own.	Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. es.uk/r/tilinon
AT-1	EAC-C2C ES47-1 What is the name of the cable connecting to the o UK 1 UK 1 UK	Your task in to use the we as you can about the late across the world. Use the search bor on the Then, try and find three of <b>Cable</b> e.g. Ation	Submarine Cable M To understated have the Internet works batte to collect as much information mat and how it connects computers right-hand side to find these cobles. If your own.	Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. es.uk/r/tilinon



#### **IP Addresses**

We have looked at how the Internet travels around the world. Now we will look at what happens when you search for something online, such as an image or video online, using a computing device.

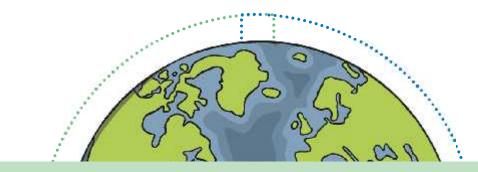


IP address: 192.159.3.44

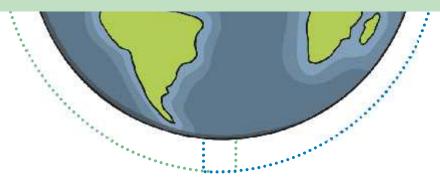
IP address: 223.142.234.84

Eachkcofrtpistiligedæridenthat letrenetictsoonelbedgizehrenetasldoesething talledraplyingetnet Protocoldaderess (IP theeress)esses are different.

#### **IP Addresses**

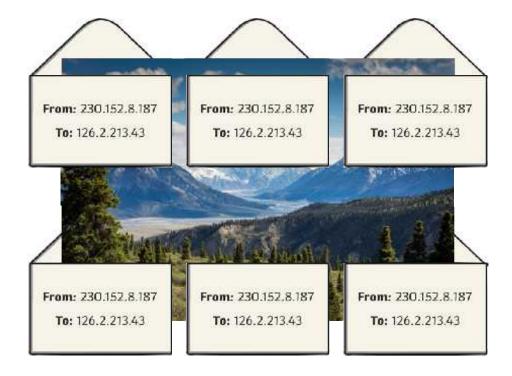


When you search for something on the Internet, what you ask for is stored on a web server somewhere around the world. A request is made to the web server and this has its own IP address. This is then sent back to your computer which has its own unique IP address.



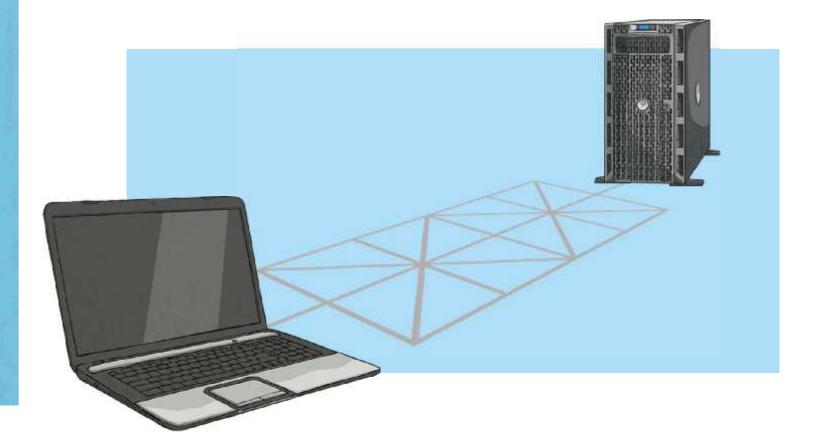
#### How Are Packets of Data Sent?

Wheeppince second prespectisity is to vapulate friender the president of the president of the second p



### How Are Packets of Data Sent?

These packets travel virtually along a route until they finally reach the destination, which is a **web server**. The pieces are then put back together.



#### **Changing Routes**

As packets travel, they pass through many different routers. Routers are computers on the Internet which keep the packets in a network moving to their destination as smoothly and quickly as possible.

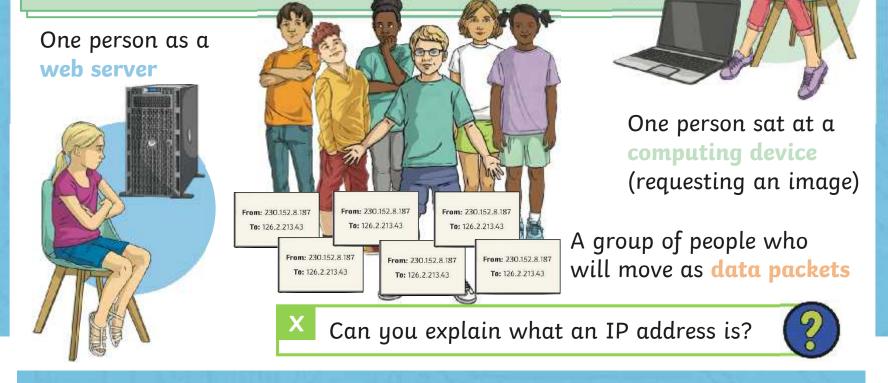
When searching for an image or requesting a song to be played on an app, what do you think happens if all of the pieces do not arrive and some are missing?

The packets may arrive at different times and are then finally back together. The more routers that are added to a nety reliable the Internet is.

muy be luken.

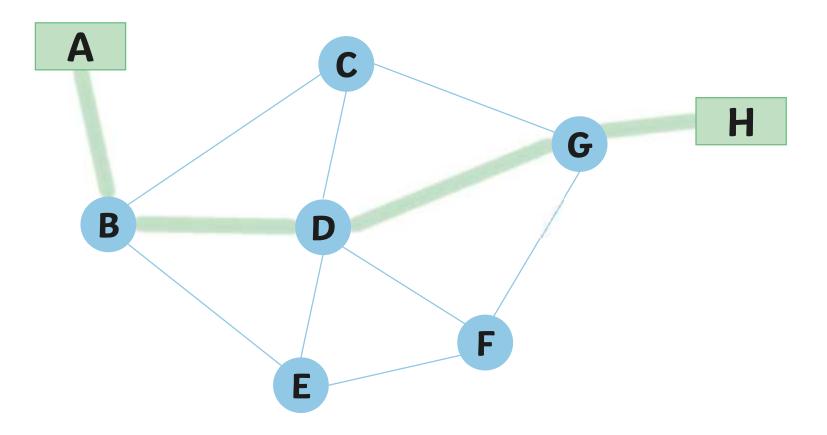
#### Let's Represent How Data Travels

OAs a your epiesse of paper ditto packets ber of pieces ant of the bed place with betters, your dillane adkets need to move along different routes until you get from the computing device to the web server. Make sure you are all stood in order, starting with the data packet labelled A first.

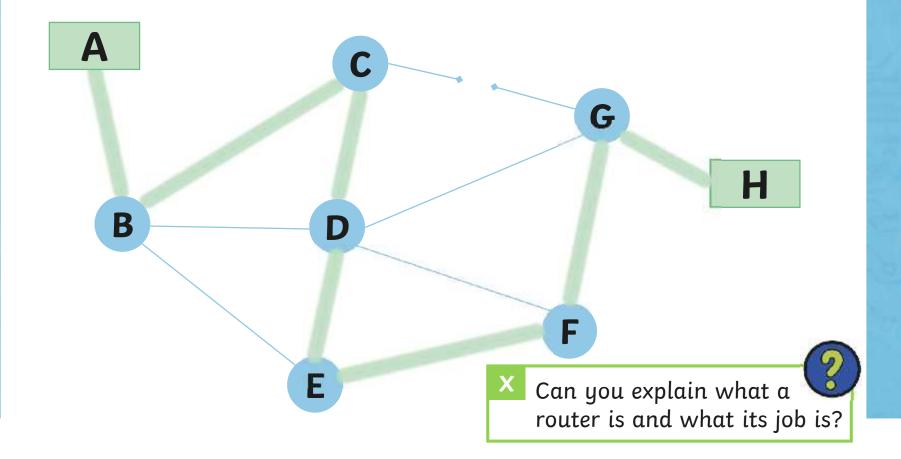


## **Changing Routes**

Take a look at this diagram. Can you work out the quickest route from A to H?

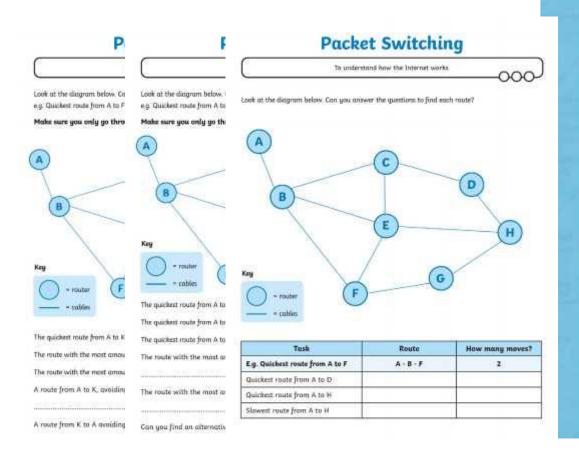


The longest route may be the cheapest route to take in some cases. Can you work out the longest route from A to H?



#### **Packet Routes**

Now you understand how packets of data are sent from one IP address to another, complete the Packet Switching Activity Sheet.





#### Aim

• To understand how the Internet works.

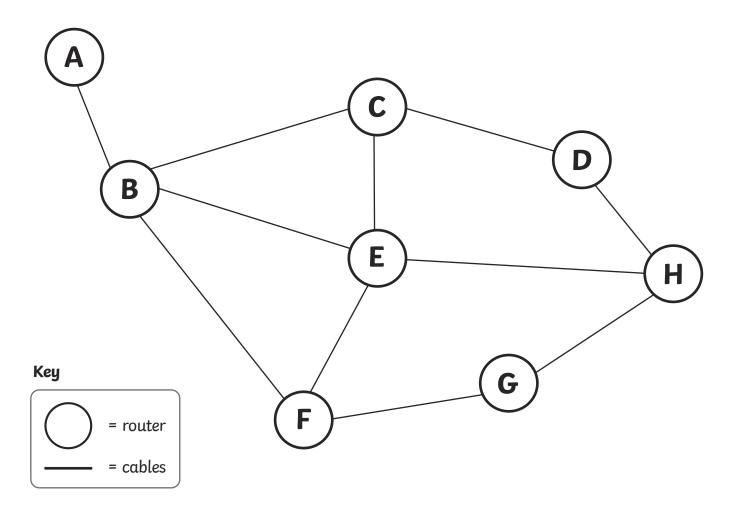
### **Success Criteria**

- I can explain how data is transferred from one point to another when using the Internet.
- I can understand what packets of data are.
- I can explain what an IP address is.
- I can explain what routers are and their function.



To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

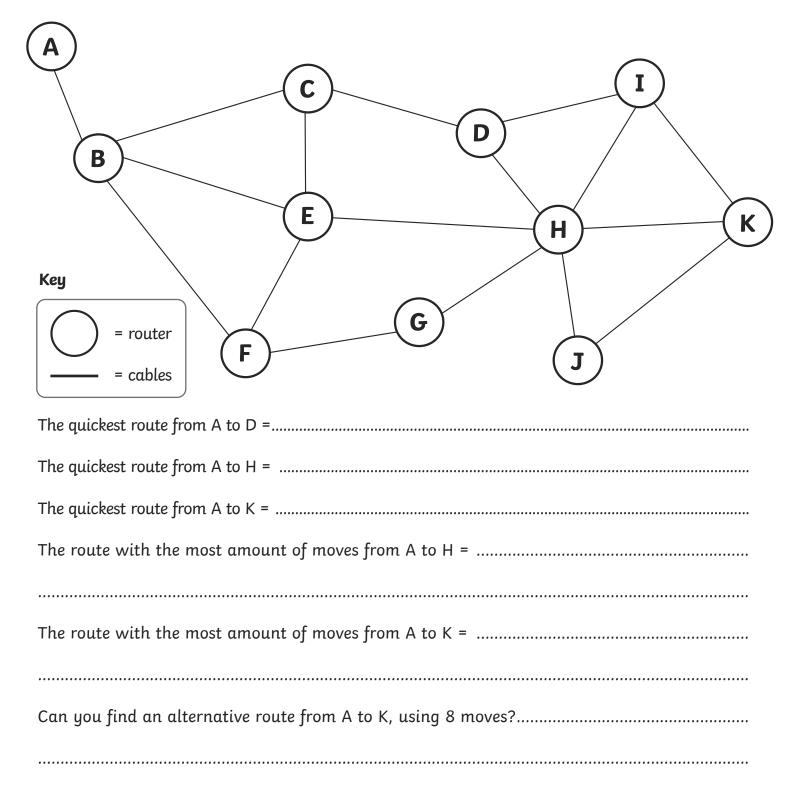


Task	Route	How many moves?
E.g. Quickest route from A to F	A - B - F	2
Quickest route from A to D		
Quickest route from A to H		
Slowest route from A to H		

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

e.g. Quickest route from A to F = A - B - F

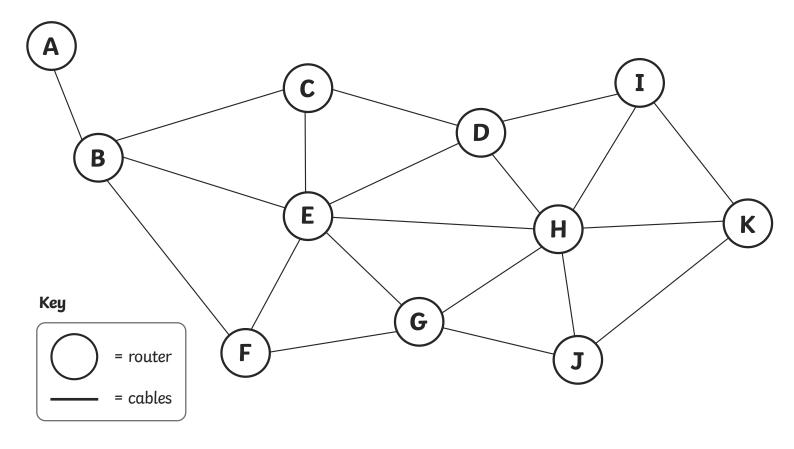


To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

e.g. Quickest route from A to F = A - B - F

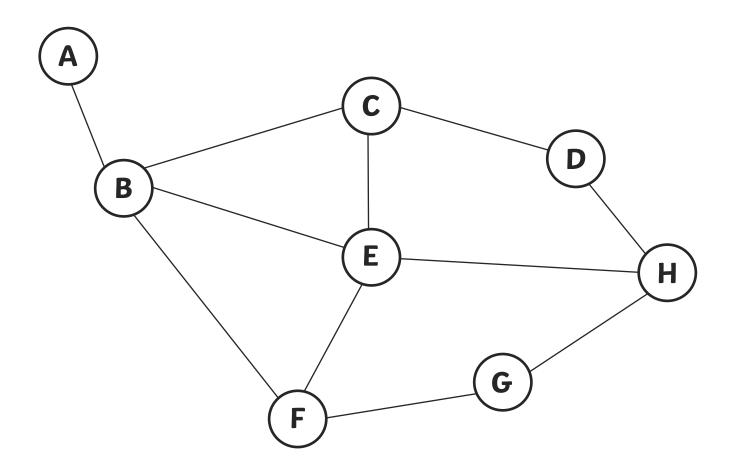
Make sure you only go through each point once.



The quickest route from A to K =	
The route with the most amount of moves from A to H =	
The route with the most amounts of moves from A to K =	
A route from A to K, avoiding points C, D, F, H =	
A route from K to A avoiding points D, H, F, C =	

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

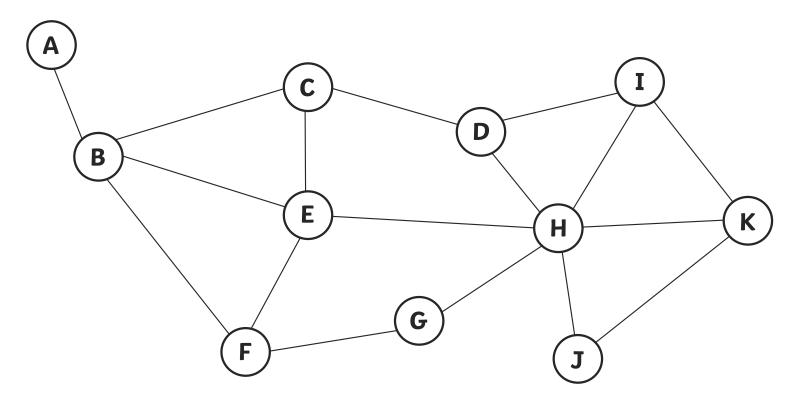


Task	Route	How many moves?
E.g. Quickest route from A to F	A - B - F	2
Quickest route from A to D	A - B - C - D	3
Quickest route from A to H	A - B - E - H	3
	A - B - C - E - F - G - H	4
Slowest route from A to H	A - B - F - E - C - D - H	6

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

e.g. Quickest route from A to F = A - B - F

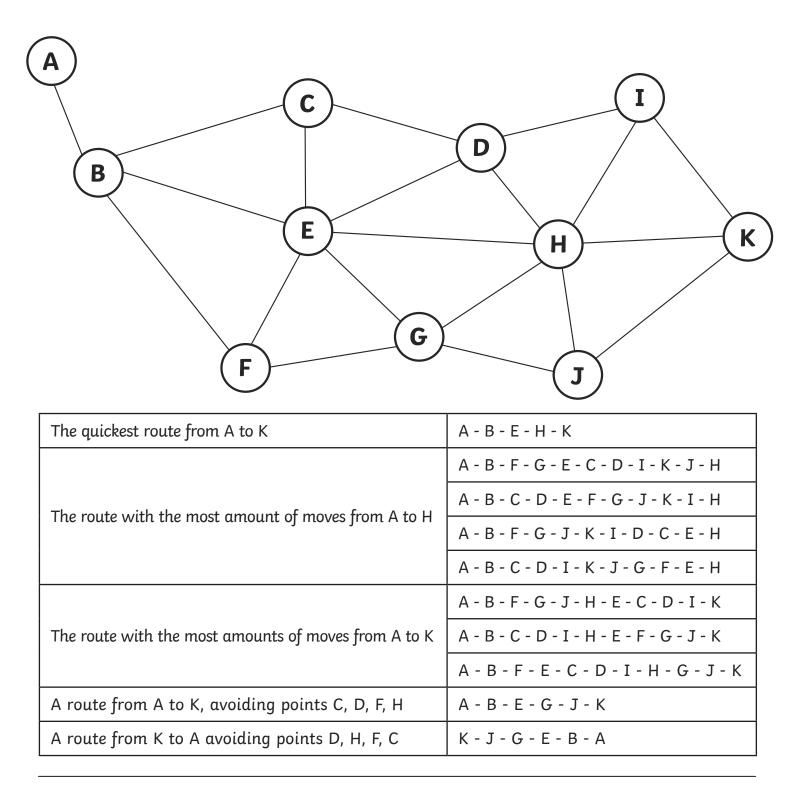


The quickest route from A to D	A - B - C - D
The quickest route from A to H	A - B - E - H
The quickest route from A to K	A - B - E - H - K
The route with the most amount of moves from A to H	A - B - F - E - C - D - H
The route with the most amount of moves from A to K	A - B - F - E - C - D - H - J - K
Can you find an alternative route from A to K, using 8 moves?	A - B - F - E - C - D - H - I - K

To understand how the Internet works.

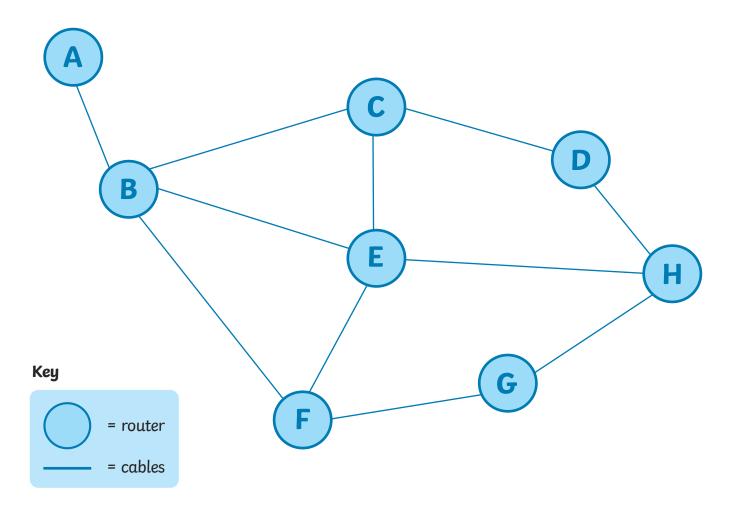
Look at the diagram below. Can you answer the questions to find each route?

e.g. Quickest route from A to F = A - B - F



To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

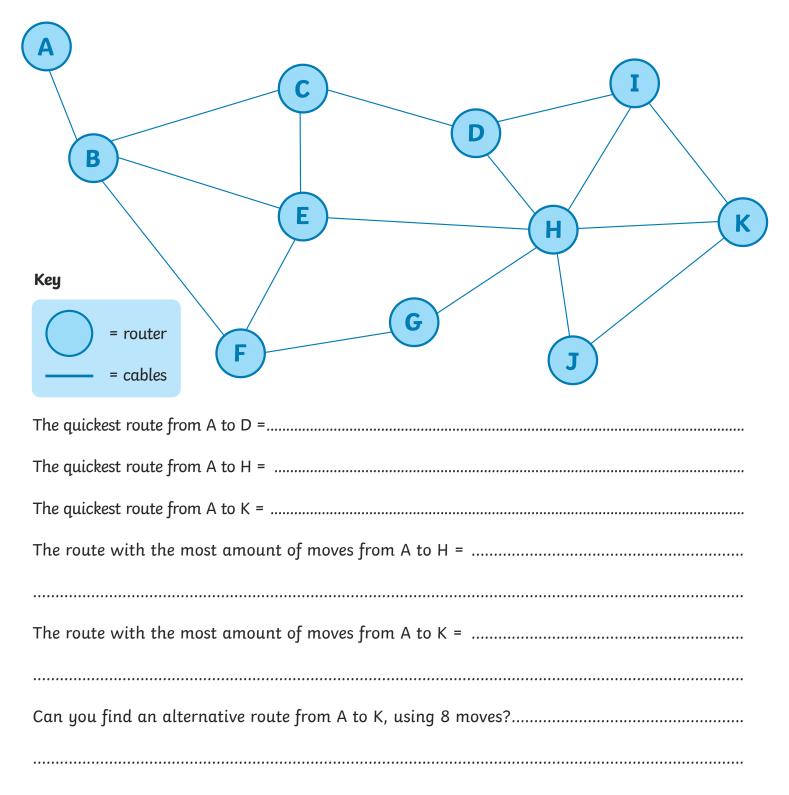


Task	Route	How many moves?
E.g. Quickest route from A to F	A - B - F	2
Quickest route from A to D		
Quickest route from A to H		
Slowest route from A to H		

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

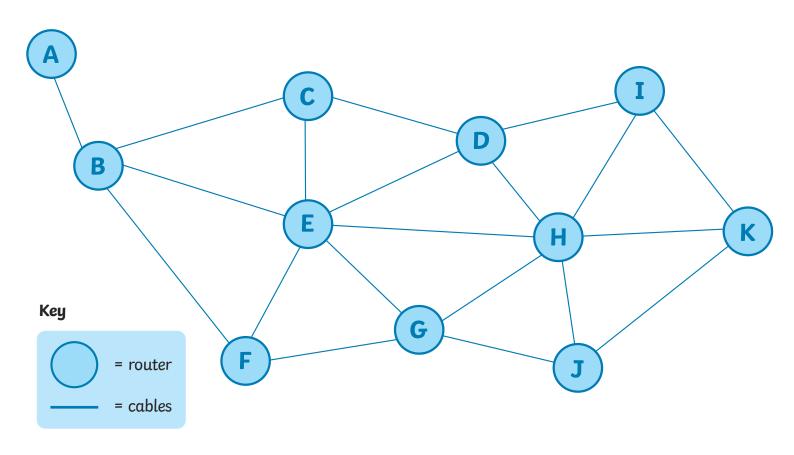
e.g. Quickest route from A to F = A - B - F



To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

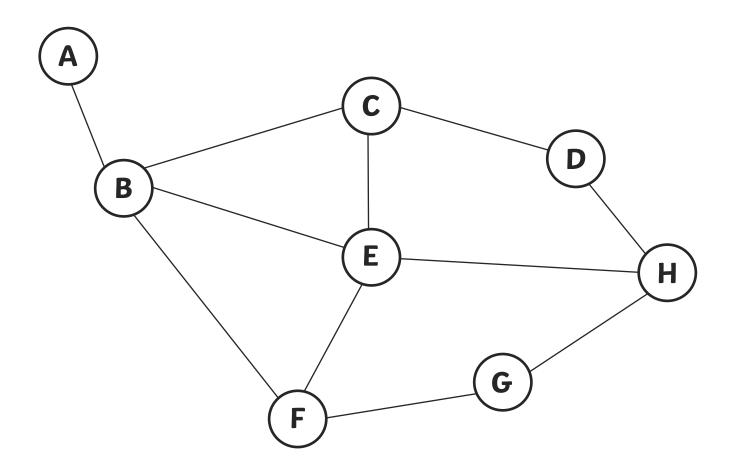
e.g. Quickest route from A to F = A - B - F



The quickest route from A to K =
The route with the most amount of moves from A to $H = \dots$
The route with the most amounts of moves from A to K =
A route from A to K, avoiding points C, D, F, H =
A route from K to A avoiding points D, H, F, C =

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

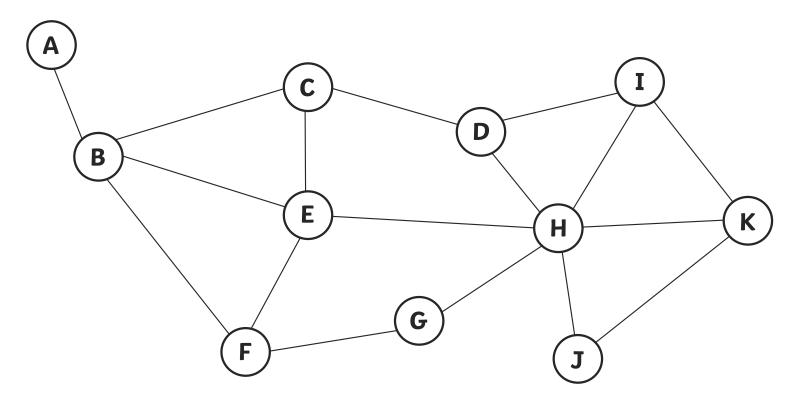


Task	Route	How many moves?
E.g. Quickest route from A to F	A - B - F	2
Quickest route from A to D	A - B - C - D	3
Quickest route from A to H	A - B - E - H	3
	A - B - C - E - F - G - H	4
Slowest route from A to H	A - B - F - E - C - D - H	6

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

e.g. Quickest route from A to F = A - B - F

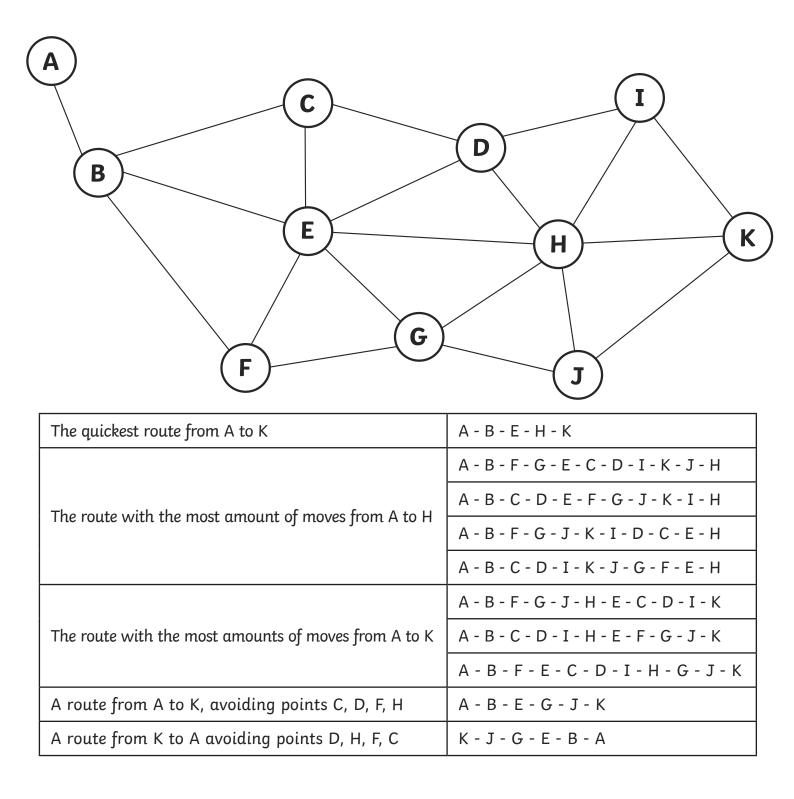


The quickest route from A to D	A - B - C - D
The quickest route from A to H	A - B - E - H
The quickest route from A to K	A - B - E - H - K
The route with the most amount of moves from A to H	A - B - F - E - C - D - H
The route with the most amount of moves from A to K	A - B - F - E - C - D - H - J - K
Can you find an alternative route from A to K, using 8 moves?	A - B - F - E - C - D - H - I - K

To understand how the Internet works.

Look at the diagram below. Can you answer the questions to find each route?

e.g. Quickest route from A to F = A - B - F



To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own. Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. co.uk/r/1iiaon

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie		
EAC-C2C		
ESAT-1		

## Submarine Cable Map

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie		
EAC-C2C		
ESAT-1		

To understand how the Internet works.

Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. co.uk/r/1iiaon

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie		
EAC-C2C		
ESAT-1		

What is the name of these fibre-optic cables? (find the UK first, zoom in, then click on the cable connecting to the other country to reveal its name)		
UK France 2		
UK Denmark		
1 UK Norway		
1		

To understand how the Internet works.

#### 000

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

CableOwned byColoure.g. AtisaDocomo PacificCurieImage: ColourEAC-C2CImage: ColourESAT-1Image: ColourImage: Colour</

What is the name of these fibre-optic cables? (find the UK first, zoom in, then click on the cable connecting to the other country to reveal its name)			
UK France			
1 2			
UK Denmark			
1			
UK Norway			
1			
UK Iceland			
1			

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own. Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. co.uk/r/1iiaon

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Telstra	

## Submarine Cable Map **Answers**

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Telstra	

To understand how the Internet works.

Your task is to use the website below to collect as much information as you can about the Internet and how it connects computers across the world.

#### Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl.co.uk/r/1iiaon

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Esat BT	

What is the name of these fibre-optic cables? (find the UK first, zoom in, then click on the cable connecting to the other country to reveal its name)			
UK       France         1 CrossChannel Fibre       2 Circe South			
UKDenmark 1 Havhingsten/North Sea Connect (NSC)			
UK         Norway           1 NO-UK			

To understand how the Internet works.

Your task is to use the website below to collect as much information as you can about the Internet and how it connects computers across the world.

#### Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl.co.uk/r/1iiaon

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Esat BT	

A variation of other cables can be found across the world. Check for accuracy or ask children to check using partners or in groups.

What is the name of these fibre-optic cables? (find the UK first, zoom in, then click on the cable connecting to the other country to reveal its name)
UK       France         1 CrossChannel Fibre       2 Circe South
UK Denmark 1 Havhingsten/North Sea Connect (NSC)
UKNorway 1 NO-UK
UK Iceland 1 Farice-1

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. co.uk/r/1iiaon

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie		
EAC-C2C		
ESAT-1		

### **Submarine Cable Map**

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie		
EAC-C2C		
ESAT-1		



To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie		
EAC-C2C		
ESAT-1		

What is the name of these fibre-optic cables cable connecting to the other country to rev	? (find the UK first, zoom in, then click on the eal its name)
UK France	
1	2
UK Denmark	
1	
UK Norway	
1	

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

What is the name of these fibre-optic cables? (find the UK first, zoom in, then click on the cable connecting to the other country to reveal its name)

UK

I

2

UK

Obmmark

1

UK

Norway

1

UK

I

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own. Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl. co.uk/r/1iiaon

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Telstra	

## Submarine Cable Map Answers

To understand how the Internet works.

Your task is to use the website to collect as much information as you can about the Internet and how it connects computers across the world.

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Telstra	

To understand how the Internet works.

Your task is to use the website below to collect as much information as you can about the Internet and how it connects computers across the world.

#### Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl.co.uk/r/1iiaon

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Esat BT	

What is the name of these fibre-optic cables? cable connecting to the other country to reve	
UK France	
1 CrossChannel Fibre	2 Circe South
UK Denmark	
1 Havhingsten/North Sea Connect (NSC)	
UK Norway	
1 NO-UK	

To understand how the Internet works.

Your task is to use the website below to collect as much information as you can about the Internet and how it connects computers across the world.

#### Access a web browser Search for and click on: Submarine Cable Map https://www.twinkl.co.uk/r/1iiaon

Use the search bar on the right-hand side to find these cables. Then, try and find three of your own.

Cable	Owned by	Colour
e.g. Atisa	Docomo Pacific	
Curie	Google	
EAC-C2C	Telstra	
ESAT-1	Esat BT	

A variation of other cables can be found across the world. Check for accuracy or ask children to check using partners or in groups.

What is the name of these fibre-optic cables? (find the cable connecting to the other country to reveal its not	5
UK France 1 CrossChannel Fibre 2 C	irce South
UK ······ Denmark 1 Havhingsten/North Sea Connect (NSC)	
UK Norway	
UK Iceland	
<b>1</b> Farice-1	

Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	

Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	

#### Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	

#### Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.		
I can explain how data is transferred from one point to another when using the Internet.		
I can understand what packets of data are.		
I can explain what an IP address is.		
I can explain what routers are and their function.		

Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	

Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	

Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	

Online Searchers and Surfers| How the Internet Works

To understand how the Internet works.	
I can explain how data is transferred from one point to another when using the Internet.	
I can understand what packets of data are.	
I can explain what an IP address is.	
I can explain what routers are and their function.	