

Knowledge Organiser Subject: Computing Topic: Computer systems and networks – Communication and collaboration



We will learn:

- * that data is transferred using agreed methods
- * that internet devices have addresses
- * how computers use addresses to access websites

IP addresses

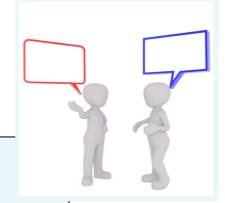
Every time you access a website, send a message, or watch a video

- You use an address (e.g. website
- · A DNS translates it into an IP
- Your computer sends and receives data from another computer





192 . 168 .	1.34
	_
Network ID	
	Host ID



URL (Uniform Resource Locator)	The address of a file on the internet
Protocols.	Protocols are like rules. They are an agreed way of doing something.
IP address	Internet Protocol – Networked computers use IP addresses.
DNS	Domain Name Server
Data packets.	The internet sends data in packets.
Domain name	The part of

Key Vocabulary

Definition

Packets of a message

From: Packet

To:

192.168.1.10	192.168.1.4	no. _1_	of	packets.	H	<u>i</u>	•	_	<u>h</u>	0	<u>w</u>	_
То:	From:	Packet		Total no. of								
192.168.1.10	192.168.1.4	no. <u>2</u>	of	packets.	a	<u>r</u>	е	_	y	0	U	?

Total no. of

Data you send or receive cannot fit in a single packet, so it is split into multiple packets, like this example of a message. The packet number and total number of packets is contained in the header.



All data transferred over the internet is in packets

a website's URL that is user friendly and identifies that it is under the control of a particular person or organisation

raspberrypi.org

e.g.



Chat =

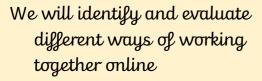
Click on the Chat buttor

Tupe messages in the

Read messages

chat box -





Using other people's work It's always OK to use someone else's work.

Create a shared bank of information

help people to work together

Sharing information online can





Meeting someone you have only been in touch with online can be dangerous. Only do so with your parents' or carers' permission and even then only when they can be present.

RCCEPTIDG8 Accepting emails, IM messages, or opening files, pictures or texts from people you don't know or trust can lead to problems - they may contain viruses or nasty messages

RETABLES Someone online might lie about who they are, and information on the internet may not be true. Always check information with other websites, books or someone who knows.

Tell your parent, carer or a trusted adult if someone or something makes you feel uncomfortable or worried, or if you or someone you know is being bullied online.

Find out more at Childnet's website ... www.kidsmart.org.uk





Public

Something in open view



Private

Click on the Explore

button at the bottom of the screen

Enter a search term

Choose Web or

Images

Involving a particular person or group only



How should you share messages?

When working online and collaboratively, we need to stay safe!





Images



Video