



# 01 Activity Guidance and Instructions

## DO SOMETHING FUN IN YOUR NEXT ONLINE CHAT WITH YOUR FRIENDS OR RELATIVES

**1 SHOW OFF A SKILL**  
In the video, Calum shows off his drumming skills and explains what he is demonstrating to his grandparents.

Find a skill that you'd like to show:

- Build your confidence and speaking skills
- Get the help of a family member to support you if necessary.
- Explain the process (and/or the steps involved) in what you're doing.

**2 FAMILY QUIZ**  
A weekly event involving a number of households from the same extended family.

Each household sets ten questions, which are then answered by the other participants. The answers are shared after each round, with scores recorded in a spreadsheet.

### Optional

To cater for some rounds being easier or more difficult than others, you could use a spreadsheet to calculate the average score for each round, which is then awarded to the household asking the questions.



# 02 Computer Science

## ALGORITHM

An algorithm is a precisely defined procedure – a sequence of instructions, or a set of rules, for performing a specific task

## SEQUENCE

To place program instruction in order, with each executed one after the other.

## ABSTRACTION

Abstraction is about simplifying things; identifying what is important without worrying too much about the detail.

## PERSEVERING\*\*

Developing and showing off a skill sometimes requires perseverance, which is being determined, resilient, tenacious – never giving up.

Abstraction allows us to manage complexity.

## CREATING\*\*

Creating is about planning and making things. By mastering new and existing skills, we develop confidence, competence and independence which we can use playfully, experimentally and purposefully in the expression of our ideas and insights.

## COLLABORATING\*\*

Collaborating means working with others and it frequently achieves the best results.

\*\* Some definitions taken from Barefoot Computing - <https://www.barefootcomputing.org/>

# 03 IT Skills\*

## ONLINE SAFETY SEARCH ENGINE

Used to describe behaviours and policies intended to minimise the risks to a user of using digital technology, particularly the internet.

A SEARCH ENGINE allows you to search the internet once you have access to your a web browser.

## INTERNET

The Internet provides many services that enable us to stay connected, such as email, instant messaging and video conferencing.

## ONLINE BEHAVIOUR

Only speak to people that you know in real life - this is a key message to primary age children!

Sharing personal information about what you are doing with family e.g. grandparents is perfectly fine, but never share personal information online e.g school name, your home address.

## WEB BROWSER

A piece of software that enables the user to access web pages and web apps on the internet.

A polite message is good but the focus for primary children is about not sharing personal information or photos of yourself with anyone online.

See links on right for more information.

\* Some definitions taken from Quick Start Computing Guide - <https://bit.ly/quickstartcas>

# 04 Links to additional resources and activities

- A** COMPUTING AT SCHOOL HOME LEARNING  
<https://www.computingatschool.org.uk/homelearning>
- B** BAREFOOT COMPUTING  
<https://www.barefootcomputing.org/>
- C** HOME LEARNING RESOURCES FROM PARTNERS  
Raspberry Pi Foundation <https://www.raspberrypi.org/learn/>  
NCCE <https://teachcomputing.org/home-teaching/>  
STEM Learning <https://www.stem.org.uk/home-learning>
- D** USEFUL STUFF FOR YOUR QUIZ  
An example spreadsheet to record your scores can be copied from here - <https://bit.ly/recordscores>.  
300+ questions for your virtual pub quiz - <https://bit.ly/quizrt>  
More questions plus this also allows you to contribute your own - <https://bit.ly/quizrt2>  
Technologies for communicating with others <https://bit.ly/castechlinks>
- E** ONLINE SAFETY  
Internet Matters - Online Safety Leaflets and Resources - <https://bit.ly/internetmatters1>  
CEOP. More Online Safety Leaflets <https://bit.ly/ceoppolice>
- F** UNDERSTANDING COMPUTER NETWORKS  
For understanding computer networks, including the Internet, visit BBC Bitesize - <https://bbc.in/3hRF37z>.