Networks

Topic aims:

- *To understand the purpose of networks*
- *Advantages and disadvantages of networks*
- *Hardware needed to create a network*
- *LANs and WANs*
- *The origin of the internet*

[Video tutorial (only if you miss the lesson!)]

Log-ins:

ict_media:

- Username: **ict_media**
- Password: **ict1331**

***Teach-ICT* click here:**

- Username: **sw139qn**
- Password: **register3**

Watch **Captain Network Part 1**! **Click here for Teach-ICT**

- **Task 1: What is a computer network?**
  - In your **Google Slides, *Computing Notes***: **Title: Networks**
  - Captain Network will explain everything!
    - **Answer** in 1 full sentence: ***What is a computer network?***
    - **Write down**: *3* ***advantages*** *&* *3* ***disadvantages*** *of networks.*

- **Task 2: Start your video**

[Tips: Step by Step]
[Tutorial video: How to use iMovie]

  - Open **iMovie** *(search using Spotlight:* **only on *ict_media* *login*)**
  - **Start your movie** (not "trailer") by **adding images** to **Script 1**.
    - *Download Script 1 and then find it in your* ***Downloads*** *folder*
    - *The images must be* ***relevant*** *to networks: aim for 5 or 6 which show what the script is talking about!*
    - *Make a folder with your name on it and save images there.*

- **Task 3: Network hardware**
  - Continue your movie by adding appropriate images to go with **Script 2**.

- **Task 4: The Internet**

  Computing Notes: **Title: <u>My Networks Script: The Internet</u>**

Watch the **information video**: **The internet**

- **Create "Script 3"**, in the style of the first 2, which answers the following questions:

  1. **What is the Internet?**
     a. **(clue: many LANS joined together)**
  2. **How did the internet begin?**
     a. **(clue: 1969; "The Arpanet")**
  3. **Who was Vint Cerf?**
     a. **(clue: he developed "protocols" to allow communication over the Internet)**
  4. **What is a protocol?**
  5. **What is the World Wide Web?**

- **Record**

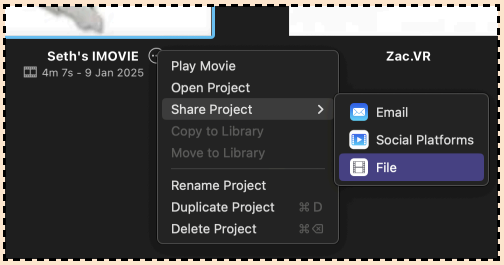
  Record your audio clip, from your script, **for homework.**
  *Use **Voice Memos** and upload to your **Google Drive**.*
  (You do not need to find pictures at home!).

[Tutorial video: How to record a sound clip at home]

- **Add**
  - Add your audio clip with some chosen images, into your iMove project.

- **Extension Task… Music!**
  - You could make a soundtrack in *GarageBand* to play behind your voice!

- **<u>Finish video</u>**
  - **Embed your finished video into your Slides**
    i. From the iMovie "Project Page", you can choose to *Share Project* > *File*



    ii. Once you have a file (it saves to "*Documents*": look in *Finder*), drag and drop it into your *Google Drive*.
    iii. Now go to Google Slides and you can *Insert* > *Video* from Google Drive and it will embed in a slide.

Computing Notes: **Title: Networks Video**



These words will come up in the next test!

Network	**Two or more computers connected together** for the purposes of sharing data or resources.
LAN (Local Area Network)	A network which covers a **small geographic area**, such as a school. All the hardware is owned by that school or other organisation.
Server	A big computer accessed over a network which **provides access to web pages**, documents, online games, music and films, amongst other things!
Router	A device which connects two or more **different networks together** and **routes data between them**.
Hub	Connects devices to a **central point**.
Wireless Access Point (WAP)	A device which allows devices to connect **wirelessly** to a network.
The Internet	A **global network** of connected devices.
The World Wide Web (WWW)	A **service** which provides **pages of information**, accessed via the Internet, using a web browser.