

## Minimum Technical Requirements & Recommendations 2011 Espresso Primary and/or Channel 4 Learning Clipbank Online

### Broadband connection

The speed and performance of Espresso/Clipbank online, including watching videos, is mostly dependent upon the school's bandwidth. If a network is also being used by heavy bandwidth applications (such as video conferencing, large file transfers, etc.), there may be less bandwidth available for Espresso/Clipbank. If many users are accessing Espresso/Clipbank concurrently, this may result in minor delays in playing Espresso/Clipbank video. A minimum broadband connection of 2Mb broadband is required.

### Network (in school)

- A fully operable 100Mbit Network (1000Mbit recommended).
- Wireless networks are supported, but due to contention across the network the number of clients running the Espresso/Clipbank service simultaneously will be limited depending on your infrastructure. Espresso recommends a minimum 108Mb wireless access point per classroom or per 10 client machines.

### Client computer hardware and software

- Clients must already be connected to a working LAN and running TCP/IP.
- Windows XP, Vista, Windows 7 and Apple MAC OS 10.4 or above are supported with a minimum of:
  - Graphics card and monitor capable of high colour setting and 800 x 600 screen resolution
  - X86 Processor running at 1.60Ghz (or equivalent)
  - 512MB RAM memory (1Gb for Windows Vista and Windows 7)
  - Sound card
  - Speakers and/or headphones (headphones are recommended when Espresso is being used simultaneously on multiple computers).

### Software

These are the minimum versions required. We recommend you have the most up to date versions:

- Internet Explorer 6.0 or above for Windows, Safari 4.0 or above for Apple MAC.
- Firefox 3.4 or above is supported on Windows platforms only, the Windows Media Player plug-in for Firefox is also recommended.
- Other browsers e.g. Google Chrome, AOL and Opera are not fully supported.
- Adobe Flash Player 10.

**For further information or help, please contact Technical Support:**

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