

Preparing our students for a digital world

Deepfakes

Our digital world

- Computing curriculum
 - New and emerging technologies
 - How to keep safe
 - Deepfakes

What are deepfakes?

- A deepfake is an extremely convincing piece of media that is created using artificial intelligence (AI), based on pictures and recordings of the subject.

Real or fake

- <https://www.whichfaceisreal.com/>

How to spot a deepfake

- **Check for:**
- blurring, cropped effects or pixilation (small box-like shapes), particularly around the mouth, eyes and neck
- skin inconsistency or discoloration
- inconsistency across a video, such as glitches, sections of lower quality and changes in the lighting or background
- badly synced sound
- irregular blinking or movement that seems unnatural or irregular
- gaps in the storyline or speech.

Different deepfakes

- **Deepfakes that demean** – by falsely depicting someone in a particular scenario, for example sexual activity. They can be used to extort money or force them to share further sexual content.
- **Deepfakes that defraud** – by misrepresenting someone else's identity. They can be used in fake adverts and romance scams.
-
- **Deepfakes that disinform** – by spreading falsehoods widely across the internet, to influence opinion on key political or societal issues, such as elections, war, religion or health.