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| **DATA REPRESENTATION** |  |

## **Sound**

Click on the image below to go to the GCSEPod video for this topic (you will need to login).

Watch the video and respond to the questions below.



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## **Core Question**

* The table below shows four stages in converting sound into a digital form. Show the correct order for the stages by labelling them with the numbers 1 – 4 (1 being the first stage).

|  |  |
| --- | --- |
| **Stage** | **Order 1-4** |
| Binary representation of level stored |  |
| Microphone picks up sounds waves |  |
| Value read at specific point and rounded to a level |  |
| Converted to an electrical analogue signal |  |

## **Challenge Questions**

* The following are factors that affect the quality of a digital audio file:
  + Sample rate
  + Bit depth
  + Bit rate

Construct an animation/cartoon to explain what they mean.