

## Year 7 - What are computers (using department resources & online and inhouse videos)

### Lesson 1: Binary numbers explained

<https://www.youtube.com/watch?v=kcTwu6TFZ08>

<https://www.youtube.com/watch?v=Xpk67YzOn5w>

### Lesson 2: Converting Decimal numbers to Binary numbers

<https://www.youtube.com/watch?v=gGiEu7QTi68>

<https://www.mathworksheets4kids.com/number-system-conversions/decimal-to-binary-1.pdf>

## Year 8 - Micro:bit inspiration

### Lesson 1: *Micro:bit - Strictly Micro:Bit*

<https://www.bbc.co.uk/teach/live-lessons/strictly-microbit-live-lesson/zkpty9g>

### Lesson 2: *Micro:bit - Dr Who and the Micro:Bit*

<https://www.bbc.co.uk/teach/live-lessons/doctor-who-and-the-microbit-live-lesson/z7ycwty>

## Year 9 - Introduction to Digital Imaging (Online tutorials & Inhouse)

1A: Different Types of Files <https://1stwebdesigner.com/image-file-types/>

1B: Instagram [SEE One Drive Link](#)

## Year 10 - Data Representation (using dept resources & Online videos)

1A: Theory Videos - Bit Pattern [https://www.youtube.com/watch?v=gLtPm7AHwm8&list=PLCiOXwirraUAbqsUwRtXDrz4T0\\_w21q6N&safe=true](https://www.youtube.com/watch?v=gLtPm7AHwm8&list=PLCiOXwirraUAbqsUwRtXDrz4T0_w21q6N&safe=true)

1B: Theory Videos - Number Base System [https://www.youtube.com/watch?v=Qo2czpRNwag&list=PLCiOXwirraUAbqsUwRtXDrz4T0\\_w21q6N&index=2&safe=true](https://www.youtube.com/watch?v=Qo2czpRNwag&list=PLCiOXwirraUAbqsUwRtXDrz4T0_w21q6N&index=2&safe=true)

1C: Theory Videos - Converting Decimals to B [https://www.youtube.com/watch?v=Gwbov75ap5A&list=PLCiOXwirraUAbqsUwRtXDrz4T0\\_w21q6N&index=3&safe=true](https://www.youtube.com/watch?v=Gwbov75ap5A&list=PLCiOXwirraUAbqsUwRtXDrz4T0_w21q6N&index=3&safe=true)

1D: Theory - Classwork [SEE One Drive Link](#)

1E: Worksheet - Binary System [SEE One Drive Link](#)

1G: Binary Link Game <https://studio.code.org/projects/applab/iukLbcDnzqgoxuu810unLw>