CORBY
**Technical**
School

| Subject | Computer Science | |
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| **Week** | **Learning** | **Activities** |
| Week beginning 8th June | **Units**<br><br>In this lesson we will introduce the topic of binary. Students will learn why computers use binary numbers, the different units numbers use and how to calculate and convert between the different binary units. | https://www.thenational.academy/year-9/computer-science/units-binary-year-9-wk6-1<br><br>Follow the instructions and guidance to watch the video and work through the tasks.<br><br>Complete the self-assessment quiz that has been provided on Teams. |
| Week beginning 15th June | **Binary Conversions**<br><br>In this lesson, we will learn how to convert a denary number to and from binary. We will learn how to convert up to a byte of binary to denary. | *A link to the lesson will be provided on teams when this lesson is available.*<br><br>Follow the instructions and guidance to watch the video and work through the tasks.<br><br>Complete the assessment provided on teams. This will test what the students have learnt from the lesson and previous week. |
| Week beginning 22nd June | **Hexadecimal conversion**<br><br>In this lesson we will learn to Convert between binary, denary and hexadecimal numbers and explore the benefits of and reason for using all three number systems. | *A link to the lesson will be provided on teams when this lesson is available.*<br><br>Follow the instructions and guidance to watch the video and work through the tasks.<br><br>Complete the self-assessment quiz that has been provided on Teams. |
| Week beginning 29th June | **Characters**<br><br>In this lesson we will be exploring the difference between different character sets. We will look how characters set are created and the uses for each character set. | *A link to the lesson will be provided on teams when this lesson is available.*<br><br>Follow the instructions and guidance to watch the video and work through the tasks.<br><br>Complete the self-assessment quiz that has been provided on Teams. |
| Week beginning 6th July | **Images**<br><br>In this lesson we will be exploring how images are constructed using a computer. How images are represented by binary and how image sizes are calculated. | *A link to the lesson will be provided on teams when this lesson is available.*<br><br>Follow the instructions and guidance to watch the video and work through the tasks.<br><br>Complete the assessment provided on teams. This will test what the students have learnt from the lesson and previous week. |

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| Week beginning 13th July | **Sound**<br><br>In this lesson we be exploring how sound is sampled by a computer, the difference between an analogue and digital sound and what factors effect a sounds file size. | *A link to the lesson will be provided on teams when this lesson is available.*<br><br>Follow the instructions and guidance to watch the video and work through the tasks.<br><br>Complete the self-assessment quiz that has been provided on Teams. |