## **Ks3 Computing Learning Journey GCSE Computer** Science Ks4 Or WJEC in Level 2 **Pathway** vocational Qualification ICT **Data Representation and Binary addition Advanced Python** Adobe Photoshop. and Truth programming: **Enterprise and** Students will learn how can Tables: Animation: Applying the entrepreneurship different file types (sound, tudents will Students will programming Learners will explore image, and text) can be constructs of sequence represented. They will also learn learn binary use Blender how new business selection and iteration what a Vector is. Finally they will arithmetic as to create 2D ideas occur and the well as being and 3D in Python risks and rewards in create a leaflet, manipulating able to complete Animation running a business. images using Adobe Photoshop truth tables, Advanced **Creating Websites** Introduction to Python **Programming** Spreadsheet: using HTML programming: essentials and **U**sing Students will lean how Applying the Scratch spreadsheets to the internet works programming model and solve Students will use before going to create constructs of sequence, Flowol to solve real real world their own website selection and iteration using HTML life problems and problems using in Python then applying the programming constructs of sequence, selection and

Hardware, Software & Networks

Students will learn about Hardware and Software devices along with input and output devices. They will also recognise what a network is and study the Ps different types.

**Data Representation &** Adobe Photoshop:

Students will develop a knowledge of images by using 1 bit image representation. They will then go on to create a logo in Photoshop

Students will revisit converting binary to denary and vice versa. They will also learn to calculate Hexadecimal numbers and look at AND, OR and NOT gates

**Binary and Boolean Logic** 

iteration in Scratch

Introduction to

Computational Thinking Students will be introduced to the key concepts of

programming using Flowol



**WELCOME TO COMPUTING AT** LHS

Using the school network:

Introduction to the compute lab and how to use the school network appropriately

E-Safety

Students will learn how social media has impacted society, both positively and negatively and will learn what their digital footprint in. They will also learn how to stay online

Introduction to Binary Students will learn what a binary number is and how to convert

it to denary and vice versa

Modelling data, spreadsheets:

Sorting and filtering data and using formulas and functions in spreadsheet software

Whether you want to uncover the secret of the universe or pursue a career in the 21st century, basic computing skills are essential