New Woodlands School Programme of Study (POS)

Subject: Computing

Key stage 3

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	**How to use Microsoft packages effectively** **Word:** Understand and use Microsoft Word effectively to write sentences and paragraphs **PowerPoint:** Be able to use Microsoft PowerPoint to create a sli9mnde show while using a range of basic software features in order to create an engaging slide show	**Understanding the differences between Hardware and Software and how to build computers.** To understand the function and purpose of a computer To understand that not every computer looks like a PC and that many everyday devices contain computers **Hardware:** To be able to identify	**Internet Safety & cyber bullying** Discuss anti bullying and safety on the internet. Introducing the concept of a "Digital Footprint", what it means and why it is important. Examining cyberbullying, exploring its	**How to use Adobe packages effectively** <u>*Photoshop*</u> Using Photoshop skills to place student face onto superhero to use in creative poster , while learning how to Crop images. Add text to images. Remove people or objects within an image. Use magic wand tool to assist in	**Creating games using Scratch.** This unit covers the following guidelines in the National Curriculum: *-Design, write and debug programs that accomplish specific goals, including controlling or Simulating physical systems; solve problems by decomposing them into smaller parts.* *-Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.*	**Understanding the basics of coding and Binary** Understand how the binary number system works Convert denary numbers into binary and check the accuracy of my conversion Write a simple computer program and

	Basic Features • Create Textboxes • Insert Images • Change font type, size and colour • Creating a new PowerPoint Slide **Excel:** Being able to set up spreadsheets with filled with data to suit a specific purpose, understanding the concept of cell references and the different types of data	different computer hardware components and explain what their function is Begin to understand the different between input and output devices **Software:** To be able to explain the importance of Software within a computer and provide examples of different software's they students could encounter.	effects and implication of it. Showing an understanding of e-safety. Understand what computer viruses are and how they are transmitted, how to recognise them while showing students how they can reduce their risks of downloading them	background/image removal Use photo filters <u>*Premier Pro*</u> Using Premier pro skills to film and edit an interview of their choosing, while learning how to Crop videos Import videos Import sounds Replace sound over videos Change video formats Export in different formats Trim videos Text overlay on videos	*-Use logical reasoning to explain how some simple algorithms work and to detect and correct Errors in algorithms and programs.*	avoid basic syntax errors when writing a program
Year 8	**Understanding the differences between Hardware and Software and how to build computers.**	**How to use Microsoft packages effectively** **Word:** Understand and use Microsoft	**Internet Safety & cyber bullying** Discuss anti bullying and safety on the internet.	**How to use Adobe packages effectively** <u>*Photoshop*</u> Using Photoshop skills to create an advanced	**Understanding the basics of coding and Binary** Understand how the binary number system works	**Creating games using Scratch.** This unit covers the following guidelines in the

	To understand the function and purpose of a computer **Hardware:** To be able to identify different computer hardware components and explain what their function is. Understanding the different between input and output devices **Software:** To be able to explain the importance of Software within a computer, and provide examples of different software's they students could encounter. **Binary** To explain what is meant by binary data and to understand why a computer uses binary data	Word effectively to complete set tasks, display research and create reports/letters **PowerPoint:** Be able to use Microsoft PowerPoint to create a slide show while using a range of intermediate software features in order to create an engaging slide show *Intermediate Features* • Inserting Video's and Audio • Slide transitions • Word Art • Creating a table **Excel:** Being able to set up spreadsheets with filled with data to suit a specific	Introducing the concept of a "Digital Footprint", what it means and why it is important. Examining cyberbullying, exploring its effects and implication of it. Showing an understanding of e-safety. Understand what computer viruses are and how they are transmitted, how to recognise them while showing students how they can reduce their risks of downloading them	movie poster, while learning how to Manipulate the colour of an image. Use the Lasso Polygon Tool to assist in background/image removal Use the Clone tool to draw and copy from other areas of the image Organise photos for quick access in PS tabs Use "focus" tool to create depth in photos to while manipulating backgrounds <u>*Premier Pro*</u> Using Premier pro skills to film and edit a music video of their choosing, while learning how to • Use video transitions	Convert denary numbers into binary and check the accuracy of my conversion Write a simple computer program and avoid basic syntax errors when writing a program	National Curriculum: *-Design, write and debug programs that accomplish specific goals, including controlling or Simulating physical systems; solve problems by decomposing them into smaller parts.* *-Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.* *-Use logical reasoning to explain how some simple algorithms work and to detect and correct*

		purpose, understanding the different types of data (Currency, Number, Date, Time) that can go into an excel sheet. Introduction to Excel formula's specifically =SUM() where students can conduct math (- + / Average)		• Use sound transitions • Adjust volume levels • Remix Audio • Adjust Video sizes • Adjust video colour		*Errors in algorithms and programs.*
Year 9	**How to use Microsoft packages effectively** **Word:** Understand and use Microsoft Word effectively to complete set tasks, display research and create reports/letters while using advanced Word features such as 'Citations & Bibliography' **PowerPoint:** Be able to use	**Understanding the differences between Hardware and Software and how to build computers.** To understand the function and purpose of a computer while being able to highlight their importance in the modern society **Hardware:** To be able to identify different computer	**Internet Safety & cyber bullying** Discuss anti bullying and safety on the internet. Introducing the concept of a "Digital Footprint", what it means and why it is important. Examining cyberbullying, exploring its	**How to use Adobe packages effectively** <u>*Photoshop*</u> Using Photoshop skills to create an advanced movie poster & correct damaged images, while learning how to Repair flaws, such as dust on the lens or red eyes Create blends with different colours and transparencies	**Creating games using Scratch.** This unit covers the following guidelines in the National Curriculum: *-Design, write and debug programs that accomplish specific goals, including controlling or* *Simulating physical systems; solve problems by decomposing them into smaller parts.* *-Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.*	**Understanding the basics of coding and Binary** Understand how the binary number system works Convert denary numbers into binary and check the accuracy of my conversion Write a simple computer

	Microsoft PowerPoint to create a slide show while using a range of advanced software features in order to create an engaging slide show *Advanced Features* • Automatic Slide transitions • Animations • Creating a variety of charts • Special effects **Excel:** Being able to set up spreadsheets with filled with data to suit a specific purpose, understanding the different types of data (Currency, Number, Date, Time, Percentage, Fraction, Scientific, Text, Special) that can go into an excel sheet.	hardware components and explain what their function is. Understanding the different between input and output devices **Software:** To be able to explain the importance of Software within a computer, while being able to identify a range of software's that fit different purposes. Understanding that there are different types of software (System Software and Application Software) and being able to explain the purpose they serve **Binary:** To explain what is meant by binary data and to understand why a computer uses binary data	effects and implication of it. Showing an understanding of e-safety. Understand what computer viruses are and how they are transmitted, how to recognise them while showing students how they can reduce their risks of downloading them	Use gradient tool to work vibrancy, saturation or temperature of an image <u>*Premier Pro*</u> Using Premier pro skills to film and edit a short film of their choosing, while learning how to • Apply special effects using motion tracking • Automatically duck Audio • Balance audio and panning • Edit, repair and improve audio using essential sound panel • Import adobe after effects files in to the project • Render videos at high qualities	*-Use logical reasoning to explain how some simple algorithms work and to detect and correct Errors in algorithms and programs.*	program and avoid basic syntax errors when writing a program

	The introduction and practice of more complex formula (IF & TRUE) and conditional formatting (Greater than > Less than <)					