## IT Scheme of Work 2023-24: YEAR 9

AUTUMN TERM 1: SEPT - OCT	AUTUMN TERM 2: OCT - DEC	SPRING TERM 1: JAN - FEB
Design Tools	HCI	Digital World
AO: to types of design tools and how to use each	AO: to understand the purpose of HCI in everyday life.	AO: to understand types of digital communications and the
design tool for a purpose		IoE.
	Pupils will learn the purpose of HCl and how this can be	
In this unit I students will learn the theoretical knowledge	adapted for human needs.	You will understand the uses of Internet of Everything and the application of this in everyday life, cyber-security and
and understanding to apply design tools for applications, principles of human computer interfaces and the use of data		legislations related to the use of IT systems, and the
and testing in different contexts when creating IT solutions	Pupils will understand:	different types of digital communications software, devices,
or products.	Know the purpose of HCI	and distribution channels.
	<ul><li>Know the purpose of HCI</li><li>Know why HCI is used for each application area</li></ul>	
Topics:	Know the importance of HCI applied to each	Pupils will understand:
	application area	
a Design tools	<ul> <li>Advantages and disadvantages of the use of an HCl for each application area</li> </ul>	Types of communication     Coftware
<ul><li>Design tools</li><li>Flow charts Mind maps</li></ul>	cach application area	<ul><li>Software</li><li>Digital devices</li></ul>
Library	Topics:	Types of distribution channels
Tunnel timeline		Distribution channels connectivity
Presentation	<ul><li>Banking</li><li>Embedded systems</li></ul>	<ul><li>Audience demographics</li><li>IoE</li></ul>
Wireframes	Entertainment	Application areas in everyday life
	Fitness	, , , , , , , , , , , , , , , , , , , ,
	Home appliances	
	Retail	
ZigZag Education	ZigZag Education	ZigZag Education
Booklet 1	Booklet 1	Booklet 4
SPRING TERM 2: FEB - MAR	SUMMER TERM 1: APR - MAY	SUMMER TERM 2: JUN - JUL
Data and testing	Computer Related Legislation	Modelling using spreadsheet solution RO60.

AO: to understand the purpose of testing and the difference between data and information.  Pupils will explore the different types of data and how to test their work appropriately for purpose.	AO: to explore computer legislation  Pupils will explore computer legislation to understand how this relates to creating an IT product.	AO: to understand the usability of a spreadsheet for a solution  Pupils will examine how spreadsheets are used and how to make design decisions for a purpose.
Topics:  Information and data Data types in context Validation vs verification Data collection Data storage Purpose of testing Test data Types of testing  ZigZag Education Booklet 2	<ul> <li>Topics:         <ul> <li>Threats</li> <li>The impacts of a cyber security attack on individuals and/or organisations</li> <li>Prevention methods</li> <li>Legislation related to the use of IT systems</li> </ul> </li> <li>ZigZag Education         <ul> <li>Booklet 3</li> </ul> </li> </ul>	<ul> <li>To explain what a spreadsheet is and how it is used in business.</li> <li>Consider integration and how this can be used effectively for their solution.</li> <li>Identify the user requirements and begin to design an interface.</li> <li>Consider layout and design and usability of their design.</li> <li>House style, formatting and branding.</li> <li>Identify the data types: text, number, Boolean, and date and when they would be used.</li> <li>Invoices and reports.</li> <li>Forms and charts.</li> </ul>
		OCR Resources RO60 Practice Assignment.