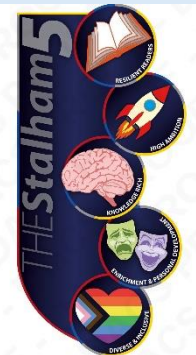




Stalham High School - Subject Curriculum Overview

Subject: Computing

Year 8

Half -Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Themes/ Content/ Units covered 	<p>Learn how to use Turtle to create simple shapes and edit the appearance of these (e.g. size, colour, line width)</p> <p>Use Turtle graphics to create shapes and patterns with iteration</p> <p>Learn the purpose of variables in programming</p> <p>Take inputs from a user to create customised programs</p>	<p>Use subroutines in Turtle</p> <p>Create algorithms using lists</p> <p>Solve a computational problem (creating a Turtle race game)</p>	<p>Write and execute Python programs</p> <p>Learn common syntax errors and how to debug programs</p> <p>Create variables with appropriate naming conventions</p> <p>Learn how to take inputs from a user and store this in a variable</p> <p>Use arithmetic operators in Python to perform calculations</p>	<p>Identify the use of selection in programs</p> <p>Use if, elif and else to create decision paths in a program</p> <p>Create interactive programs using selection to respond to user input</p> <p>Learn how to use the random number module in Python</p> <p>Create interactive games such as 'rock, paper, scissors' and 'guess the number'.</p>	<p>Understanding the basics of computer networks (LAN, WAN, Internet)</p> <p>Identifying network topologies and hardware (routers, switches)</p> <p>Exploring the fundamentals of cybersecurity (threats like malware, phishing, and prevention methods)</p>	<p>Learn the basics of web design and development using HTML and CSS</p> <p>Create simple web pages with headings, text, images, and links</p> <p>Understand the structure of a website (e.g., header, body, footer)</p> <p>Use CSS to style web pages and improve design</p> <p>Develop an understanding of online safety and digital literacy through responsible web publishing</p>