

The Sultan's School Year 4 Medium Term Curriculum plan for ICT - Information for parents

Block	Unit/Strand	Key Targets and Learning Objectives	Activities	Key vocabulary
<p>Internet Safety and Digital Citizenship will be taught over the course of the year through short focused tasks, videos, peer assessment/tutoring, discussions ...</p> <p>Students in Year 4 will be enrolled in Computer Science Fundamentals Course D at www.code.org. In this course students will Design, write and debug programs that accomplish specific goals. This online course will start in Block 1 and conclude mid-way through Block 5.</p> <p>Other short, single lesson activities which do not appear on the MTP may take place during any block dependant on school events and national holidays ...</p>				
1	<p>Oman Digital Literacy</p>	<ul style="list-style-type: none"> • Use PowerPoint create a multimedia slideshow to accomplish a specific goal. • Research facts and imagery about Oman online 	<p><u>Oman</u></p> <ul style="list-style-type: none"> • Students will create a slideshow promoting Oman as a tourist destination in <i>Microsoft PowerPoint</i> to celebrate National Day. <p><u>Code.org</u></p> <ul style="list-style-type: none"> • Students will consolidate critical thinking, logic and problem solving skills coding online at www.code.org 	<p>Slide/Slideshow Transition Animation Image</p>
2	<p>Theory Information Technology Digital Literacy</p> <p>Programming Computer Science</p>	<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals • Understand hardware and software and how they are different • Create an interactive quiz using 2DIY 	<p><u>Know-Ware</u></p> <ul style="list-style-type: none"> • Students will learn the definition of and differences between input and output devices through guided and independent inquiry • Students will create their own interactive quiz to demonstrate their understanding of input and output devices <p><u>Code.org</u></p> <ul style="list-style-type: none"> • Students will code solutions to problems in Course D using the online programming language Blockly at code.org. 	<p>Cut / Copy / Paste Import / Export Save As Undo Clip Art / Image Block Drag & Drop</p>

3	Programming Computer Science	<ul style="list-style-type: none"> • Create and edit a computer program in Scratch • Use directional commands to control an onscreen sprite • Evaluate a program, identify mistakes and debug accordingly 	<u>Scratch</u> <ul style="list-style-type: none"> • Students are introduced to the <i>Scratch</i> programming environment by creating an animated story using Scratch 3.0. <u>Code.org</u> <ul style="list-style-type: none"> • Students will code solutions to problems in Course D using the online programming language Blockly at code.org. 	Algorithm / Program Loop If/then/else Command Block Sprite Background Backdrop
4	Theory Information Technology Digital Literacy Programming Computer Science	<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals • Understand and use search engines effectively • Create an interactive timeline using 2DIY or RWT.org 	<u>History of Computers</u> <ul style="list-style-type: none"> • Students will learn the greatest milestones in the history of computers through guided and independent inquiry • Students will create an interactive timeline at ReadWriteThink.org • Students will watch videos about the internet and how searches work. <u>Code.org</u> <ul style="list-style-type: none"> • Students will code solutions to problems in Course D using the online programming language Blockly at code.org. 	Search Engine Index Rank Spider Browser URL Keyword
5	Databases Information Technology Programming Computer Science	<ul style="list-style-type: none"> • Understand and use database vocabulary • Understand that data can be recorded in different formats and must be accurate • Perform simple and complex queries using one or more criteria 	<u>Databases? – Information Places!</u> <ul style="list-style-type: none"> • Students will create a simple collaborative database about themselves • Students will sort and search their database in a variety of ways • Students will use more complex sample databases to perform queries <u>Code.org</u> <ul style="list-style-type: none"> • Students will code solutions to problems in Course D using the online programming language Blockly at code.org. 	Field Record Card Index Search Sort Alphanumeric Numeric Text number