

The Sultan's School Year 3 Medium Term Curriculum plan for ICT - Information for parents

Block	Unit/Strand	Key Targets and Learning Objectives	Activities	Key vocabulary
<p><b>Internet Safety and Digital Citizenship will be taught over the course of the year through short focused tasks, videos, peer assessment/tutoring, discussions...</b></p> <p><b>Students in Year 3 will be enrolled in Computer Science Fundamentals Course C at <a href="http://www.code.org">www.code.org</a>. 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.</b></p> <p><b>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...</b></p>				
1	<p><b>Graphing</b> Digital Literacy</p>	<ul style="list-style-type: none"> <li>• Get familiar with basic Database vocabulary such as <b>record, field, field name, data</b></li> <li>• Create a graph to display collected data</li> <li>• Sort information by field to answer specific questions such as: how many girls in our class have their birthday in May?</li> </ul>	<p><b>Database</b></p> <ul style="list-style-type: none"> <li>• Students use 2Investigate Database software to insert personal data into pre-loaded record cards such as name; last name; number of siblings; etc</li> <li>• Students save their work on the Z: drive using their personal logins.</li> <li>• Students print their work for portfolios and display.</li> </ul> <p><b>Code.org</b></p> <ul style="list-style-type: none"> <li>• Students will develop critical thinking, logic and problem solving skills coding online at <a href="http://www.code.org">www.code.org</a></li> </ul>	<p>Record Field Field name Data</p>
2	<p><b>Programming</b> Computer Science</p>	<ul style="list-style-type: none"> <li>• Understand that control devices follow stored instructions which can contain numerical data and that instructions can be repeated</li> <li>• Write a simple algorithm and use it to create a program</li> <li>• Collaborate to create a coordinated routine using <i>Dash</i></li> </ul>	<p><b>Dash-the robot</b></p> <ul style="list-style-type: none"> <li>• Program the robot Dash by completing the challenge cards provided</li> <li>• Document Dash outcome on the provided worksheets</li> </ul> <p><b>Code.org</b></p> <ul style="list-style-type: none"> <li>• Students will develop critical thinking, logic and problem solving skills coding online at <a href="http://www.code.org">www.code.org</a></li> </ul>	<p>Blocks Instructions Team role Lead programmer Robot wrangler Documentarian</p>

3	<b>Programming</b> Computer Science	<ul style="list-style-type: none"> <li>• Understand that control devices follow stored instructions which can contain numerical data and that instructions can be repeated</li> <li>• Write a simple algorithm and use it to create a program</li> <li>• Collaborate to create a coordinated routine using <i>Beebots</i></li> </ul>	<b><u>My Algorithm</u></b> <ul style="list-style-type: none"> <li>• Students discuss robotics and instructions; learn the meaning of “algorithm”. As a class students write and code an algorithm and test it on a “Beebot”.</li> <li>• In pairs students code algorithms independently and test it on a “Beebot”.</li> </ul> <b><u>Code.org</u></b> <ul style="list-style-type: none"> <li>• Students will develop critical thinking, logic and problem solving skills coding online at <a href="http://www.code.org">www.code.org</a></li> </ul>	Forward Left Right Back Instructions Algorithm Coding Program
4	<b>Word Processing</b> Digital Literacy (Classifying – MS Word)	<ul style="list-style-type: none"> <li>• Demonstrate an understanding and awareness of e-safety</li> <li>• Use Microsoft PowerPoint to create an e-safety poster</li> <li>• Use captions to give more information about illustrations</li> </ul>	<b><u>E-Safety</u></b> <ul style="list-style-type: none"> <li>• Students will watch a video on E-Safety</li> <li>• Discuss how they can be safe online</li> <li>• Use Microsoft PowerPoint to create an e-safety poster adding captions for the illustrations</li> </ul> <b><u>Code.org</u></b> <ul style="list-style-type: none"> <li>• Students will develop critical thinking, logic and problem solving skills coding online at <a href="http://www.code.org">www.code.org</a></li> </ul>	E-safety Step Edit Theme
5	<b>Game Design</b> Computer Science Digital Literacy	<ul style="list-style-type: none"> <li>• Understand what makes video games different</li> <li>• Design and create a video game using 2DIY</li> <li>• Design, write and debug programs that accomplish specific goals</li> </ul>	<b><u>Time to Play</u></b> <ul style="list-style-type: none"> <li>• Students will watch videos to learn about different video game genres</li> <li>• Students will plan and design a video game of their choosing</li> <li>• Students will create a video game using 2DIY</li> </ul> <b><u>Code.org</u></b> <ul style="list-style-type: none"> <li>• Students will consolidate critical thinking, logic and problem solving skills coding online at <a href="http://www.code.org">www.code.org</a></li> </ul>	Forward Backward Left Right Sequence