



ARAB UNITY SCHOOL

CURRICULUM OVERVIEW

YEAR 10

2019 – 2020

A guide for Parents and Students

### **Syllabus aims**

The Cambridge IGCSE Design and Technology syllabus aims to:

- develop creative thinking in areas relevant to design and technology
- apply problem solving skills to practical and technological problems
- develop the communication skills central to design, making and evaluation
- apply knowledge and understanding to the design and making of products, taking into consideration sustainability and the wider impact on society
- encourage candidates to apply learning to areas of personal interest
- develop a range of transferable skills and the attributes of the Cambridge learner
- develop the ability to make aesthetic, economic, moral and technical value judgements.



	systems		Winter assessment- Nov17-21(mechanisms all portions)
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		<b>Winter break</b>	
<b>Term 2</b>	<p>3.Electronics Basic Electronics, current, voltage, potential difference</p> <p>BYOD LINK <a href="http://www.technologystudent.com/elec1/compn1.htm">http://www.technologystudent.com/elec1/compn1.htm</a></p> <p>switches, capacitors power circuit questions, soldering, resistance, switches, capacitors</p> <p>4. Basics of structures, members of structures</p>	<p><b>Independent projects on mechanisms (creative thinking, self-organising and enquiring)</b></p> <p><b>Design competition March 25(creative thinking, self-organising)</b></p>	<p>Feb(9-13) curricular tests based on electronics and structures</p> <p>Feb 23 internal assessment electronics and structures</p>

			Spring Exam-March1-12)
<b>Term 3</b>	5. Basic Drawing techniques  product design drawing	<b>Spring break</b>  <b>Independent research project (March 26 to April 12)(Enquirers and reflective learning)</b>  <b>working Project in electronics(Creative thinking and self-managing)</b>	Internal assessment – May 7 (Product Design)
			Final end of year exam - June (All units)