Curriculum Map GIS 2018-19	Qualifications: MYP
Subject: Design	Subject Leader: Gabriel Kyne
Key Concepts: Communication, Communities, Development, Systems	Global Context (Main): Scientific and technical innovation
Related Concepts: Adaptation, Collaboration, Ergonomics, Evaluation, Form, Function, Innovation, Invention, Markets & trends, Perspective, Resources, Sustainability.	ATL: Thinking skills, Social skills, Communication skills, Self-management skills, Research Skills.
 Aims The aims of MYP Design are to encourage and enable students to: enjoy the design process, develop an appreciation of its elegance and power develop knowledge, understanding and skills from different disciplines to design and create solutions to problems using the design cycle use and apply technology effectively as a means to access, process and communicate information, model and create solutions, and to solve problems develop an appreciation of the impact of design innovations for life, global society and environments appreciate past, present and emerging design within cultural, political, social, historical and environmental contexts develop respect for others' viewpoints and appreciate alternative solutions to problems act with integrity and honesty, and take responsibility for their own actions developing effective working practices. 	 Objectives A Inquiring and analysing Students are presented with a design situation, from which they identify a problem that needs to be solved. They analyse the need for a solution and conduct an inquiry into the nature of the problem. B Developing ideas Students write a detailed specification, which drives the development of a solution. They present the solution. C Creating the solution Students plan the creation of the chosen solution and follow the plan to create a prototype sufficient for testing and evaluation. D Evaluating Students design tests to evaluate the solution, carry out those tests and objectively evaluate its success. Students identify areas where the solution could be improved and explain how their solution will impact on the client or target audience.
Assessment Assessment for Design courses in all years programme is criterion-related, based on four equally weighted assessment criteria: Criterion A Inquiring and Analysing Maximum 8 Criterion B Developing Ideas Maximum 8 Criterion C Creating the Solution Maximum 8 Criterion D Evaluating Maximum 8	

Unit 1 Computing Computing Computing Computing or Textiles KC Systems Systems Systems Systems PC Function Investion Function Investion Function Investion Function Investion	Computing or Textiles Systems
KC Systems Systems Systems PC Function Investion Function Investion Function Investion	Systems
DC Eurotian Invention Eurotian Invention Eurotian	
	Function Invention
GC S&TI S&TI S&TI S&TI	S&TI
SOI Using functional systems aids invention Using functional systems aids invention Using functional systems aids invention	Using functional systems aids invention
Criteria A A A A A A	AB
AIL Ininking skills, Seif-management skills Ininking skills, Seif-management skills Ininking skills, Seif-management skills	I hinking skills, Self-management skills
Content Scratch 1 - programming elements Scratch Advanced - using scratch to Expanding knowledge of python to all Computing and communication	Ethical hacking and security
Linit 2 Computing Computing Computing Computing Computing or Woh	
Comparing Compar	Systems
RC Function Invention Eurocian Invention Eurocian Invention	Eunction Invention
GC S&TI S&TI S&TI S&TI S&TI	S&TI
SQL Using functional systems aids invention Using functional systems aids invention Using functional systems aids invention	Using functional systems aids invention
Criteria AB AB AB	AB
ATL Thinking skills, Self-management skills, Thinking skills, Self-management skills, Thinking skills, Self-management skills, Self	Thinking skills, Self-management skills
Content Scratch 2 - using variables and data Building an APP - introduction to simple Expanding Python to use objects Option: Computing gaming in unity	Option: Computing gaming
structures python Web design Option: web design	Option: web technologies
Unit 3 Engineering Engineering Engineering Engineering Engineering	MYP Personal Project
KC Systems Systems Systems Systems	Systems
RC Function Adaptation Function Adaptation Function Adaptation Function Adaptation	Function Adaptation
GC S&TI S&TI S&TI	S&TI
Solid Adapting systems improves functionality Adapting systems improves functionality Adapting systems improves functionality B	Adapting systems improves functionality B
Unteria BC C C C C C C C	U D Thinking skills. Solf management skills
ATL THINKING SKIIS, Self-Hidridgement Skiis Th	Ruilding on CCSE Project to show
content Calubdate Lighteeting levers and puncys Lighteeting 2 Laser cuting and gears CAD and SD pinning and laser cuting option. Build a complete terr and engineering project Ratio gaming console	advancement
or PC Ontion: 3D furniture design and	advancement
Unit 4 Applications Applications Applications Applications	MYP Personal Project
KC Development Development Development Development	Development
RC Evaluation Form Evaluation Form Evaluation Form	Evaluation Form
GC S&TI S&TI S&TI S&TI S&TI	S&TI
SOI Developing new forms through evaluating Developing new forms through evaluating Developing new forms through evaluating	Developing new forms through evaluating
Criteria AD AD AD AD	ABCD
ATL Thinking skills, Self-management skills	Thinking skills, Self-management skills
Content image processing Photosnop to make 1- Sound Editing making a sound or music Video Editing Office Automation and modeling with	Building on Project to show advancement
Unit 5 3D structures Building Skills Building Skills Building Skills	Assessments
KC Development Development Development	73363311161113
RC Function Form Function Form	
GC S&TI S&TI S&TI	
SOI Function guides development of form Function guides development of form Function guides development of form	
Criteria BC BC ABCD	ABCD
ATL Thinking skills, Self-management skills Thinking skills, Self-management skills Thinking skills, Self-management skills	
Content Building Bridges Plumbing & Wiring Woodwork & metalwork	
Unit 6 Robotics Robotics Project	Assessments
KC Development Development Development	
RC Function Form Function Form	
GU S&II S&II S&II S&II	
ATI Thinking skills Self-management skills Thinking skills Self-management skills Thinking skills Self-management skills	ABCD
Content Basic Robot Control - animatronics Advanced Robotics - animatronics Sov Cameras (animatronics this year)	
Final Year Project 1 Final Year Project 2 Final Year Project 3	