

Course & Year	Unit Title	Key Concept	Related Concepts	Global Contexts	Statement of Inquiry	MYP Assessment Criteria	ATL
Drafting 3	Exploration of Shape	Communication, Creativity	Form, Function.	Scientific and technical innovation	Creativity can be communicated through the function and form of a product.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	III. Organization skills, IV. Affective skills, V. Reflection skills
Drafting 4	Aviation	Form	Function, Invention.	Scientific and technical innovation	Form and function are intrinsically related when inventing a product that can fly.	A: Inquiring and analysing, C: Creating the solution	VI. Information literacy skills
Drafting 4	Electronics	Connections	Form, Invention.	Scientific and technical innovation	When inventing a solution to a problems connections between forms must be considered.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	III. Organization skills
Drafting 4	Aerodynamics and Propulsion	Creativity	Form, Function, Innovation.	Scientific and technical innovation	The interdependent relationship of form (aerodynamics) and function (propulsion) allows for innovation.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	III. Organization skills
Drafting 4	Engineering	Creativity	Function.	Scientific and technical innovation	Using creativity, an engineer designs a structure that supports a load.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	VIII. Critical Thinking skills
Drafting 5	Robotics	Systems	Form, Invention.	Scientific and technical innovation	Redesigning a robot requires an understanding of form to effectively repurpose it to perform a secondary function.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	VIII. Critical Thinking skills
Drafting 5	Rube Goldberg Machines	Creativity	Function, Invention.	Scientific and technical innovation	Functional inventions require ingenuity and creativity.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	IX. Creative thinking skills
Drafting 5	Ergonomics	Development	Adaptation, Ergonomics, Function.	Scientific and technical innovation	Development of models, and the process of adaptation, influence the function of products.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	III. Organization skills, IV. Affective skills, VIII. Critical thinking skills, IX. Creative thinking skills
Drafting 5	CAD/3D Printing	Development	Form, Function.	Scientific and technical innovation	Developing functional shape and form allows student to solve problems.	B: Developing ideas, C: Creating the solution	III. Organization skills, IV. Affective skills, V. Reflection skills
Drafting 5	Material Science	Connections	Collaboration, Resources.	Scientific and technical innovation	When conducting research, student become knowledge reasources when connecting and collaborating with others.	A: Inquiring and analysing, D: Evaluating	VI. Information literacy sk
Drafting 5	Energy and Power	Creativity	Function, Invention.	Scientific and technical innovation	Inventing a transmission system to propel a vehicle requires creativity.	A: Inquiring and analysing, C: Creating the solution	III. Organization skills
Foods 4	Food Systems	Systems	Perspective, Sustainability.	Globalization and sustainability	Consumer choices and perspectives can create the growth of sustainable systems.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	II. Collaboration skills
Foods 4	Substitution - Baking	Development	Adaptation, Function.	Identities and relationships	Materials can be adapted to develop products that function in a similar way with additional health benefits.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	II. Collaboration skills
Foods 4	Meal Planning	Creativity	Invention.	Personal and cultural expression	The invention of creative meals expands the amount of nutritious, delicious, and efficacious options for individuals and families.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	II. Collaboration skills
IT 3	Digital Citizenship	Communities	Collaboration, Perspective.	Fairness and development	Digital communities are governed by rules that are developed through collaboration to allow for a balanced perspective and to promote fairness within the membership.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	I. Communication skills, II. Collaboration skills, III. Organization skills, IV. Affective skills, V. Reflection skills

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IT 3	Making Algorithmic Designs	Creativity	Form, Function.	Personal and cultural expression	Algorithms are part of our daily lives. Algorithms are used daily as part of our problem solving process.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	III. Organization skills, IV. Affective skills, V. Reflection skills
IT 4	Introduction to Programming Unit	Systems	Invention.	Identities and relationships	Programming is one of the creative processes that can transform ideas into reality.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	I. Communication skills, III. Organization skills, IV. Affective skills
IT 4	Web Design	Communication	Adaptation, Form, Perspective.	Scientific and technical innovation	Communication of information is dependent on the adaptation of the form and function of digital systems and products.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	I. Communication skills, III. Organization skills, V. Reflection skills, VI. Information literacy skills, VIII. Critical thinking skills
IT 4	Computer Data Analysis Unit	Logic, Relationships	Perspective.	Personal and cultural expression	Data is integrated in all forms of our communication. Knowing how to gather data, making sense of data by finding patterns, and developing insights and organize data in appropriate graphs, charts, words, and images will be immensely important.	A: Inquiring and analysing, C: Creating the solution	II. Collaboration skills
IT 4	Problem Solving, Binary Numbers, and Algorithms	Perspective	Innovation.	Globalization and sustainability	There are many perspectives when dealing with problems. Utilizing these perspectives and a defined problem solving model will help generate solutions.o	C: Creating the solution	I. Communication skills, VIII. Critical thinking skills
IT 4	Introduction to Programming Unit	Systems	Invention.	Identities and relationships	Programming is one of the creative processes that can transform ideas into reality.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	I. Communication skills, VIII. Critical thinking skills, IX. Creative thinking skills, X. Transfer skills
Textiles 3	Making stuff from scratch	Systems	Perspective, Sustainability.	Globalization and sustainability	Consumer choices and perspectives can create the growth of sustainable systems.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	III. Organization skills, IV. Affective skills
Textiles 4	Embroidery Project - Phone holders - Self expression	Creativity	Form.	Globalization and sustainability	Human impact on the world can be expressed creatively through different forms (embroidery).	B: Developing ideas	VIII. Critical thinking skills, IX. Creative thinking skills
Textiles 4	Hoodies- Self-Expression	Creativity	Adaptation.	Personal and cultural expression	Textile items can be creatively adapted as examples of self expression	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	I. Communication skills, III. Organization skills, IV. Affective skills, VI. Information literacy skills, VIII. Critical thinking skills, IX. Creative thinking skills, X. Transfer skills
Textiles 4	Dream Catchers - textiles	Culture, Perspective	Adaptation, Form, Perspective.	Identities and relationships	The purpose of an object can remain the same while the perspective (due to culture and identity) can change the form.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution, D: Evaluating	IX. Creative thinking skills
Textiles 4	Cultural Fusion	Communication	Innovation, Perspective.	Personal and cultural expression	Knowledge of communities' perspectives enables the creation of innovative culturally appropriate products.	A: Inquiring and analysing, B: Developing ideas, C: Creating the solution	II. Collaboration skills