

## James Hogg Middle School- Subject Overview 2018-2019

### Design

Unit Title	Key Concept	Related Concept(s)	Global Context	Statement of Inquiry	MYP Subject Group Objectives	Approaches to Learning Skills	Content (topic, knowledge, skills)
Exploration of Careers 27 Teaching Hours	Development	Evaluation, perspective	Identities & Relationships	Evaluation and perspective determines personal development culminating identity formation.	A iv	Communication, research	127.3 College and Career Readiness 1) A-E, 2A-F, 3C,E,F, 6A,E
Financial Literacy 27 Teaching Hours	Communitites	Markets & Trends	Globalization & Sustainability	Communities influence markets and trends, which creates commodities and commercialization.	Aiv,Biii,Cii,Dii	Communication, research	127.3 College and Career Readiness 3 A,C, 5C,D,E,F,G,H, 6, A,C,D,E,
Problem Solving 12 Hours Teaching	Development	Collaboration, Innovation	Personal & Cultural Expression	The bedrock of our contemporary society, is founded through the unification of collaboration and innovation, in the absence of these concepts; modern day developers and entrepreneurs would be extinct.	Ai,ii,iii,iv, Ci,ii,iii,iv	Thinking	1. Creativity and innovation ☐ (E) create algorithms for the solution of various problems. ☐ (G) use the internet to create and publish solutions. 2. Communication and collaboration The student will
Games and Animation 20 Hours Teaching	Systems	Adaptation, Sustainability	Orientation in space and time	Evolution is crucial in systems; operative systems thrive when they adapt and sustain to suit the needs and wants of consumers.	Ai,ii,iii,iv, Bi,ii,iii,iv, Ci,ii,iii,iv, Di,ii,iii,iv	Self-management	1. Creativity and innovation The student will develop products and generate new understanding by extending existing knowledge. The student

Engineering as a discipline 21 Hours Teaching	Development	Adaptation, Invention	Scientific & Technical Innovation	Invention and adaptation in engineering leads to development.	Ciii,Diii	Social	130.402. Principles of Applied Engineering 2A-G, 5 A-D
Career Development 20 Hours Teaching	Development	Evaluation	Identities & Relationships	Development and identity formation are a result of evaluation.	Cii, Diii	Communication, Social	130.302 Principles of Information Technology 2A-C, 11A,B, 13A
Web-page design and publishing 27 Hours Teaching	Communication	Collaboration, Function	Personal & Cultural Expression	The beauty of collaboration and communication is that they maintain function.	Aiv, Biii, Civ, Div	Communication, Social, Self-management, thinking	130.302 Principles of Information Technology 1A-D,G, 12A-E
Excel with Excellence 45 Hours Teaching	Communication	Adaptation, Function	Scientific & Technical Innovation	Adaptation of systems in the digital life supports its function.	Cii	Research	130.302 Principles of Information Technology 7A,B,C, 8A-F, 13A-F
The Speaker Project 20 Hours Teaching	Development	Collaboration, Innovation	Scientific & Technical Innovation	Product development is the result of collaboration and innovation.	Ai, Biii, Ciii	Self-management, Thinking	130.302 Principles of Information Technology 1A-G
Introduction to CAD 12 Hours Teaching	Systems	Form, Perspective	Globalization & Sustainability	Any system dealing with natural resources and public goods, with perspective, can revise form.	Cii, Dii	Thinking	130.402. Principles of Applied Engineering 10 A-H

Invent-A-Bot 36 Hours Teaching	Development	Invention	Scientific & Technical Innovation	The invention of products, processes and solutions develop the world.	Ai, B iv, Ciii, D iv	Communication, Thinking	130.402. Principles of Applied Engineering 1 A-E 6 A-E
Robotics 36 Hours Teaching	Systems	Collaboration, Innovation	Fairness & Development	Collaboration , human capability, and the development of systems is integral to the innovation of robotics.	Aiii,Biii,Cii,Diii	Self-management, Thinking	130.402 Principles of Applied Engineering 7A-D, 8A-D, 9A-E
Food Safety 7 Hours Teaching	Systems	Function, markets & trends, sustainability	Scientific & Technical Innovation	A functional and sustainable food system reduces negative risks and consequences by promoting personal responsibility.	Ai,Bi,Ci,Div	Self-management, r	§130.226. Culinary Arts (One to Two Credits). C. Knowledge and Skills (9) The student explains how employees, guests, and property are protected to minimize losses or liabilities. The
International Food and Culture	Communitites	Adaptation, Invention	Scientific & Technical Innovation	A community may thrive with development and progresses when it adapts the practices of another community.	Dii,iv	Communication, social, self-management	130.255: 4 A-C The student evaluates global cuisines, including the culture, history, and indigenous ingredients to create international recipes.
Learning the Tools of InDesign 32 Hours Teaching	systems	Function, Resources	Identities & Relationships	The digital tools of InDesign function as a graphic system that serves the design process.	Cii,Biv,	Thinking	126.41, 1A2A, 4A-F, 6Ei-iii

Using Typography to Communicate Meaning 15 Hours Teaching	Communication	Function	Personal & Cultural Expression	The use of typography in graphic design functions as a vehicle for personal and cultural expression used to communicate meaning.	Bii,Ciii	Self-management, Thinking, Communication	126.41, 1B, 2D, 3B, 4A-F, 5A,D,6Bi,ii, 6Ci,vi, 6Dii,iv, v,6Eii,iii,iv,vi, 6Fii,iii, 6Hi,6Hiv
Applying the principles of design in a composition 30 Hours Teaching	development	Form	Personal & Cultural Expression	Effective forms of personal or cultural expression are developed by applying structural principles.	Biv, Cii	Research, Communication	1C, 4B, 4C,4D, 4E, 4F,5C, 6Bii, 6Div, 6Dv, 6Eii, 6Eiv
Using graphic design to communicate meaning 24 Hours Teaching	Communication	Perspective	Personal & Cultural Expression	One's perspective is communicated more clearly in personal and cultural expression when applying the principles of graphic design effectively.	Bii,Cii,iii	Self-management, Thinking, Communication	1B, 2A, 2D, 3B,3C,4A-E, 5C,D, 6Ci,vi,6Dii,iv,6Ei,ii,iii,6Hi,iv,vi
The Interactivity of Design 33 Hours Teaching	Systems	Perspective	Orientation in space and time	Interactive design functions as a visual system oriented in space and time capable of shifting a viewer's perspective.	Ci,iii	Self-Management	1C, 4B-F, 5C,6Bi,ii,6Cii,6Eii, 6Fii,iii,6Hii

Designing a system: a board game 25 Hours Teaching	Development	Collaboration	Globalization & Sustainability	Collaboration is a powerful force for developing solutions to globalization and sustainability crises threatening our world.	Aiii, Ciii	Social, Research	1C, 4B-F, 5C,6Bi,ii,iii, 6Eii,6Fi,ii,iii,6Hii
Egg-stronaut Survival 25 Hours Teaching	Development	Evaluation, form, function	Scientific & Technical Innovation	In development of an effective design, evaluation of form is key to establishing proper function.	Biii,Diii	Communication, Thinking	7.2, 7.2D, 7.3B, 7.2B
Drone-Search & Rescue 25 Hours Teaching	Communication	Collaboration, Innovation	Scientific & Technical Innovation	Scientific and technological innovation in drone technology promotes communication and collaboration for societal good.	Bi,iii,iv	Self-management	7.2C, 7.2D, 7.3B, 7.4A, 7.2B
Pond Revitalization Project 20 Hours Teaching	Systems	Sustainability, Collaboration	Identities & Relationships	Establishing a self- sustainable pond eco- system requires collaboration between all biotic and abiotic factors.	Aii	Research	7.2C, 7.2D, 7.3B, 7.4A, 7.2B
Renewable Energy 20 Hours Teaching	Development	Innovation, Resources, Sustainability	Globalization & Sustainability	Development of sustainable resource usage is achievable through innovation of renewable energy technology.	Di,ii,iii,iv	Research	7.2C, 7.2D, 7.3B, 7.4A, 7.2B