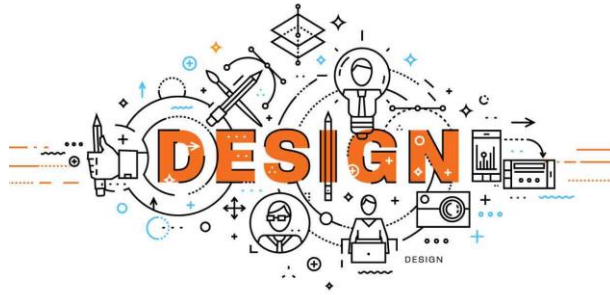


COURSE OUTLINE – MYP YEAR 4 DESIGN – FOODS & NUTRITION



Course Overview:

Foods and Nutrition 9 is a hands-on course that involves students working in unit groups to complete cooking labs, clean-up and reflections. Students will be introduced to concepts of food safety, food preparation techniques, food systems and factors that influence availability and choice. Students will complete a nutrient project that goes through the IB Design Cycle.

Learning:

Through engaging with this course, students should UNDERSTAND...

Social, ethical, and sustainability considerations impact design.



Complex tasks require the sequencing of skills.



Complex tasks require different technologies and tools at different stages.



Through engaging with this course, students will KNOW...

Statement of Inquiry	Concepts	Unit Title/Topic
People in our communities have varying needs, which emphasizes the importance of planning with the available resources in mind.	Communities Connections	Nutrients in Our Diets

Through engaging with this course, students will DO...

CURRICULAR COMPETENCIES	EXAMPLES
Understanding context	<ul style="list-style-type: none"> Engage in a period of research to understand design opportunities
Defining	<ul style="list-style-type: none"> Choose a design opportunity Identify criteria for success, intended impact, and any constraints
Ideating	<ul style="list-style-type: none"> Take creative risks in generating ideas and add to others' ideas in ways that enhance them Screen ideas against criteria and constraints Critically analyze and prioritize competing factors, including social, ethical, and sustainability considerations, to meet community needs for preferred futures Choose an idea to pursue, keeping other potentially viable ideas open
Prototyping	<ul style="list-style-type: none"> Identify and use sources of inspiration and information Choose a form for prototyping and develop a plan that includes key stages and resources Evaluate a variety of materials for effective use and potential for reuse, recycling, and biodegradability Prototype, making changes to tools, materials, and procedures as needed
Testing	<ul style="list-style-type: none"> Identify sources of feedback Develop an appropriate test of the prototype Conduct the test, collect and compile data, evaluate data, and decide on changes
Making	<ul style="list-style-type: none"> Identify and use appropriate tools, technologies, materials, and processes for production Make a step-by-step plan for production and carry it out, making changes as needed Use materials in ways that minimize waste
Sharing	<ul style="list-style-type: none"> Decide on how and with whom to share their product and processes Critically evaluate the success of their product, and explain how their design ideas contribute to the individual, family, community, and/or environment Critically reflect on their design thinking and processes, and evaluate their ability to work effectively both as individuals and collaboratively in a group

Through this course, students will develop the following Approaches to Learning skills...

Below are some examples of how we develop ATL skills in Design:

ATL Skill Category	Examples of Skills
Thinking skills	Interpret data gained from scientific investigations
Social skills	Practice giving feedback on the design of experimental methods
Communication skills	Use appropriate visual representations of data based on purpose and audience skills
Self-management skills	Structure information appropriately in laboratory investigation reports
Research skills	Make connections between scientific research and related moral, ethical, social, economic, political, cultural or environmental factors

Assessment:

Throughout this course, students will demonstrate their learning...

The MYP Design course will focus on developing skills related to 4 criteria based objectives.	Formative assessment is assessment <i>as</i> learning, or assessment <i>for</i> learning. Formative assessments could include;	Summative assessment is assessment <i>of</i> learning. Summative assessments could include;
A: Inquiring and Analyzing	Using food safety principles during labs	Herbs and spices project
B: Developing Ideas	Adjusting ingredients to suit preferences during labs, experimenting with different equipment for cooking	Herbs and spices project
C: Creating the Solution	Creating products during cooking labs	Herbs and spices project
D: Evaluating	Recipe tracker reflections, verbal group reflections after labs	Herbs and spices project

Academic Honesty and Personal Integrity

The faculty at Carson Graham expects our students to complete academic and nonacademic work that is authentic and respectful of intellectual property. All students are expected to adhere to the school's Policy for Academic Integrity. Ignorance of the standards related to academic honesty and student integrity is not an excuse for dishonesty, plagiarism and malpractice. You are expected to familiarize yourself with the policy.

<https://www.sd44.ca/school/carson/About/schoolpolicies/Documents/Carson%20Graham%20Academic%20Honesty%20Policy%20reviewed%20December%202018.pdf>

Assessment Rubrics:

Criterion A: Inquiring and analysing

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1-2	The student: <ul style="list-style-type: none"> • states the need for a solution to a problem • states the findings of research.
3-4	<ul style="list-style-type: none"> • outlines the need for a solution to a problem • states some points of research needed to develop a solution, with some guidance • states the main features of an existing product that inspires a solution to the problem • outlines some of the main findings of research.
5-6	<ul style="list-style-type: none"> • explains the need for a solution to a problem • states and prioritizes the main points of research needed to develop a solution to the problem, with some guidance • outlines the main features of an existing product that inspires a solution to the problem • outlines the main findings of relevant research.
7-8	<ul style="list-style-type: none"> • explains and justifies the need for a solution to a problem • states and prioritizes the main points of research needed to develop a solution to the problem, with minimal guidance • describes the main features of an existing product that inspires a solution to the problem • presents the main findings of relevant research.

Criterion B: Developing ideas

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1-2	The student: <ul style="list-style-type: none"> • states one basic success criterion for a solution • presents one design idea, which can be interpreted by others • creates an incomplete planning drawing/diagram.
3-4	<ul style="list-style-type: none"> • states a few success criteria for the solution • presents more than one design idea, using an appropriate medium(s) or labels key features, which can be interpreted by others • states the key features of the chosen design • creates a planning drawing/diagram or lists requirements for the creation of the chosen solution.
5-6	<ul style="list-style-type: none"> • develops a few success criteria for the solution • presents a few feasible design ideas, using an appropriate medium(s) and labels key features, which can be interpreted by others • presents the chosen design stating the key features • creates a planning drawing/diagram and lists the main details for the creation of the chosen solution.
7-8	<ul style="list-style-type: none"> • develops a list of success criteria for the solution • presents feasible design ideas, using an appropriate medium(s) and outlines the key features, which can be correctly interpreted by others • presents the chosen design describing the key features • creates a planning drawing/diagram, which outlines the main details for making the chosen solution.

Criterion C: Creating the solution

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1-2	The student: <ul style="list-style-type: none"> • demonstrates approaching technical skills when making the solution • presented in an incomplete form.
3-4	The student: <ul style="list-style-type: none"> • lists the main steps in a plan that contains the details to follow the plan to create the solution • demonstrates good technical skills when making the solution • creates the solution, which partially functions and is adequately presented. • states more than one change made to the chosen design or plan when making the solution.
5-6	The student: <ul style="list-style-type: none"> • lists the steps in a plan, which considers time and resources, resulting in peers being able to follow the plan to create the solution • demonstrates competent technical skills when making the solution • creates the solution, which functions as intended and is presented appropriately • states one change made to the chosen design and plan when making the solution.
7-8	The student: <ul style="list-style-type: none"> • outlines a plan, which considers the use of resources and time, sufficient for peers to be able to follow to create the solution • demonstrates excellent technical skills when making the solution • follows the plan to create the solution, which functions as intended and is presented appropriately • explains changes made to the chosen design and plan when making the solution.

Criterion D: Evaluating

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1-2	The student: <ul style="list-style-type: none"> • describes a testing method, which is used to measure the success of the solution • states the success of the solution.
3-4	The student: <ul style="list-style-type: none"> • defines a relevant testing method, which generates data, to measure the success of the solution • states the success of the solution against the design specification based on the results of one relevant test • states one way in which the solution could be improved • states one way in which the solution can impact the client/target audience.
5-6	The student: <ul style="list-style-type: none"> • defines relevant testing methods, which generate data, to measure the success of the solution • states the success of the solution against the design specification based on relevant product testing • outlines one way in which the solution could be improved • outlines the impact of the solution on the client/target audience, with guidance.
7-8	The student: <ul style="list-style-type: none"> • outlines testing methods used, which demonstrate the success of the solution • outlines the success of the solution against the design specification based on authentic product testing • describes how the solution could be improved • outlines the impact of the solution on the client/target audience.