



École Dr. Knox Middle School

121 Drysdale Boulevard
Kelowna, BC V1V 2X9

2022 - 2023

Curriculum Information Guide

TO STUDENTS:

Welcome to École Dr. Knox Middle School. We are excited that you are going to be a student here at Dr. Knox. We offer an instructional program that focuses on academic achievement and growth through a variety of interesting classes. This course information guide has been prepared to assist you and your parents in planning your program.

TO PARENTS:

The purpose of middle school is to provide a school setting that takes into consideration the transition period from childhood to adolescence. In looking at the characteristics of middle school aged students, we realize that they are undergoing many intellectual, physical, social, and emotional changes at this time. Dr. Knox offers a program of instruction designed to build communication skills, as well as provide a range of exploratory opportunities in a variety of subject areas. The program of instruction includes a specified program of required courses with exploratory/elective options. We hope this course guide will be useful in helping you make decisions about classes for your son/daughter.

MIDDLE SCHOOL - ENGLISH PROGRAM PLANNING

Courses		
Grade 7	Grade 8	Grade 9
English 7	English 8	English 9
Social Studies 7	Social Studies 8	Social Studies 9
Math 7	Math 8	Math 9
Science 7	Science 8	Science 9
Physical & Health Education 7	Physical & Health Education 8	Physical & Health Education 9
French/Careers Education 7	French/Careers Education 8	Elective
Exploratory 7	Exploratory 8	Elective
Exploratory 7 OR Band 7	Exploratory OR Band OR Choir	Elective
		Careers Education 9 (Integrated)

MIDDLE SCHOOL – FRENCH IMMERSION PROGRAM PLANNING

Courses		
Grade 7	Grade 8	Grade 9
Français langue 7	Français langue 8	Français langue 9
Sciences humaines 7	Sciences humaines 8	Sciences humaines 9
Mathématiques 7	Mathématiques 8	Mathématiques 9
Sciences 7	Sciences 8	Sciences 9
Éducation physique et santé 7	Éducation physique et santé 8	Physical & Health Education 9
Éducation à la carrière et santé 7	Éducation à la carrière et santé 8	Éducation à la carrière et santé 9
English 7	English 8	English 9
Exploratory 7	Exploratory 8	Elective
Exploratory 7 OR Band 7	Exploratory OR Band OR Choir	Elective

This Curriculum Information Guide was accurate at time of printing; however, it is subject to change.

PREPARING FOR GRADES 10 -12 – ENGLISH

Every student in the BC Graduation Program has to pass certain courses. To graduate, you will require 80 credits total – with a minimum of 16 at the Grade 12 level, and 28 elective course credits. 52 credits are required, as you will see in the table below. The table provides an overview of the graduation requirements after completion of Grade Nine.

For more information, please see the Ministry of Education website:

<https://www2.gov.bc.ca/gov/content/education-training/k-12/support/graduation>

Required Courses * generally 4 credits	
Subject Area	Minimum Credits
A Language Arts 10	4
A Language Arts 11	4
A Language Arts 12	4
Social Studies 10	4
A Social Studies 11 or 12	4
Science 10	4
A Science 11 or 12	4
A Math 10	4
A Math 11	4
A Physical and Health Education 10	4
Career Life Education 10	4
Career Life Connections 12	4
An Arts Education and/or an Applied Design, Skills and Technologies 10, 11, or 12	4
Total	52 credits
Elective Courses	
Students must earn at least 28 elective credits for Grade 10 – 12 courses	28 credits
Overall Total	80 credits
Of the 80 credits for graduation, at least 16 must be at the Grade 12 level, including a Grade 12 Language Arts course.	

PREPARING FOR GRADES 10 -12 – FRENCH IMMERSION

Every student in the BC Graduation Program has to pass certain courses. To graduate, you will require 80 credits total – with a minimum of 16 at the Grade 12 level, and 28 elective course credits. 52 credits are required, as you will see in the table below. The table provides an overview of the graduation requirements after completion of Grade Nine.

For more information, please see the Ministry of Education website:

<https://www2.gov.bc.ca/gov/content/education-training/k-12/support/graduation>

Required Courses * generally 4 credits	
Subject Area	Minimum Credits
Français langue 10	4
Français langue 11	4
Français langue 12	4
A Language Arts 10	4
A Language Arts 11	4
A Language Arts 12	4
Sciences humaines 10	4
Sciences humaines 11	4
Science 10/Sciences 10 (optional Fr.Imm.)	4
A Science 11 or 12	4
A Math 10/Mathématiques (optional Fr.Imm.)	4
A Math 11	4
A Physical and Health Education 10	4
Career Life Education 10	4
Career Life Connections 12	4
An Arts Education and/or an Applied Design, Skills and Technologies 10, 11, or 12	4
Total	64 credits
Elective Courses	
Students must earn at least 16 additional elective credits for Grade 10 – 12 courses	16 credits
Overall Total	80 credits
Of the 80 credits for graduation, at least 16 must be at the Grade 12 level, including a Grade 12 Language Arts course. Dual Dogwood for French Immersion students requires 5 required French courses and 1 optional French course.	

GRADE 7

GRADE 7 REQUIRED CURRICULAR COURSES

Students are required to take all of the following courses.

ENGLISH 7

English 7 is a full year course that continues to emphasize reading, writing, speaking, and listening. This involves comprehension, personal response, critical analysis, and knowledge of language, composing and creating, improving communication, presentations, personal awareness, working together and community building.

SOCIAL STUDIES 7 – SCIENCES HUMAINES 7

Social Studies 7 focuses mainly on Ancient Cultures with some emphasis on Geography, Citizenship and Current Events. Students study human interaction, natural and social environments and make connections with the past and consider the future.

MATHEMATICS 7 – MATHÉMATIQUES 7

A brief review of general number concepts and operations is followed by a more intense investigation of adding and subtracting both integers and fractions, developing number sense for decimal relationships, calculating percents, understanding probability and analysing data. Solving equations and understanding relations and graphing, along with a more in depth look at measurement and geometric concepts, is also included. Problem solving is emphasized throughout each of these concepts. Students are encouraged to become proficient in the use of basic calculators and are expected to make wise decisions about when they are appropriate for use.

SCIENCE 7 – SCIENCES 7

Students will practice skills and processes learned in previous grades, and develop new skills, such as hypothesizing and formulating models. Students will continue to build a strong foundation of scientific knowledge and skills in the areas of Ecosystems, Chemistry, and Earth Science, through the application of the scientific method, activities, and projects.

PHYSICAL AND HEALTH EDUCATION 7 – ÉDUCATION PHYSIQUE ET SANTÉ 7

Physical and Health Education 7 requires active participation of all students. Students need gym strip (athletic shoes, shorts, t-shirt) for every class. Students participate in a variety of sport and fitness related activities with a variety of individual and team concepts covered. Students also cover a variety of health topics.

FRENCH 7 (English students)

This course focuses on oral French skills by listening and speaking. The main focus of instruction is on the relevant use of the language to perform real-life tasks, share ideas, and acquire information.

FRANÇAIS LANGUE 7 (French Immersion students)

Français langue 7 is a full year course that continues to emphasize oral French practice, reading, writing, speaking, and listening as well as learning about French culture. This involves comprehension, personal response, critical analysis, and knowledge of language, composing and creating, improving communication, presentations, personal awareness, working together and community building.

CAREERS EDUCATION 7 – ÉDUCATION À LA CARRIÈRE ET SANTÉ 7 (Integrated)

This curriculum is designed to help students develop skills in improving self-confidence, communication and decision-making. Students explore natural and learned interests and skills integrated with future career opportunities and experiences. In addition, Career & Health Education represents a continuum of learning,

developing and building on key concepts and abilities from year to year. This will enable students to become informed decision makers and active participants in planning and taking responsibility for their own lives.

GRADE 7 EXPLORATORY COURSES

Students will receive a rotation of exploratory classes during two of their blocks. Exploratory classes may include some of the following (this list is subject to possible changes). Students do not pick from these classes, this information is only provided as a sample for students. Students rotate by term to three different exploratory courses during each block.

ART 7

Art at middle school – an exciting adventure! Students will explore the elements and principles of design through a variety of media, drawing inspiration from master artists and their own lives.

DIGITAL INQUIRY 7

The goal of this course is to increase your ability to live in a digital world by helping you understand appropriate technology use. You will have opportunities to learn and practice technological skills to help you in school, life, and your future. Using critical thinking and an inquiry-based approach, you will explore self-regulation, how to spread positivity, and how to use technology safely.

DRAMA 7

Through active participation in drama games and group activities students have the opportunity to explore drama skills such as creativity, imagination, concentration, mime, movement, and speech.



HOME ECONOMICS 7

This is an introduction to basic food preparation techniques and nutrition, as well as basic sewing techniques.

MAKER 7

Welcome to the Maker Movement, constructing deeper learning by focusing on educating the heart, the mind, and the hands. Do you like to create, design and build your own ideas using all forms of media? In our society, makers are often people who want to make a difference in the world by creating new products that offer creative solutions to real world problems. Makers use emerging technology and a do-it-yourself mentality to learn by doing. Students will learn the Design Thinking process and may use 3-D printers, computer programming, sewing, woodworking, electronics, metal, or other resources to create innovative design solutions. Do you want to be the person to design the world's next great product? This may be the course for you.

VIDEO PRODUCTION 7

This is a hands-on technical course that requires independent individual and group work. Working in crews, students will learn skills in pre-production planning, camera handling and operation, shooting techniques, on-camera performance and editing. Additionally, media literacy skills will be integrated into class assignments and projects. Responsibility and focus are integral for the successful Video Production student. Teamwork, communication, and collaboration are skills that are actively developed in this course.

GRADE 7 ELECTIVE COURSE

Grade 7 students may choose to take Band 7. This is a full year course for students. Students taking Band as one of their blocks will receive one block of Exploratory courses.

BAND 7

This course introduces students to the basic techniques of playing a band instrument and performing together in the Grade 7 Concert Band. Instrument availability will be discussed in class. Prior musical knowledge is not necessary. Anyone can play! Practicing at home is a requirement. Performances will be as permitted in accordance with COVID guidelines.

GRADE 8

GRADE 8 REQUIRED CURRICULAR COURSES

Students are required to take all of the following courses.

ENGLISH 8

English 8 students are encouraged to develop an understanding and appreciation of novels, short stories, non-fiction, poetry and drama. Within these forms of literature, students will study main ideas, plot, themes, characters, literacy techniques, figurative language, sound devices, and explore personal, societal and cultural differences. In addition, students will develop their narrative, descriptive and expository writing skills.

SOCIAL STUDIES 8 – SCIENCES HUMAINES 8

Students continue their study of basic geography skills including map reading, latitude and longitude, and introduction to time zones. These skills are then applied to recognizing countries, bodies of water and landforms on various maps. Students are exposed to the many different religions of the world and their effect on world history. A large portion of the course is dedicated to a study of medieval history and includes units on the Roman Empire, feudal society, the medieval church and its influences and the Crusades. Units on the Renaissance and world exploration are also studied. Whenever possible, current events are incorporated.

MATHEMATICS 8 – MATHÉMATIQUES 8

Math 8 builds on the foundations set out in Mathematics 7. With the understanding that students have gained competence on topics including addition and subtraction of integers and fractions, students extend their thinking to those of multiplication and division of integers and fractions. Students continue to explore percent and ratio and look more in-depth at 3-D objects, including surface area and volume and different views. Students are introduced to the Pythagorean Theorem, and the idea of square numbers, square root, and tessellations. In addition to this, students will look at linear equations in greater detail, along with probability of independent events.

SCIENCE 8 – SCIENCES 8

The outcomes of this course allow students to develop an understanding and appreciation of science in the world around them, and how it affects them in everyday life. By actively involving the student in the scientific process, this course encourages the development of the knowledge, skills and attitudes necessary for scientific literacy. This course focuses on topics such as: the scientific process, cells and systems, optics, fluids and dynamics, and water systems on earth. In this course students will be evaluated on homework assignments, quizzes, tests, research reports, projects, as well as formal and informal lab write ups.

PHYSICAL AND HEALTH EDUCATION 8 – ÉDUCATION PHYSIQUE ET SANTÉ 8

Physical Education 8 requires active participation of all students. Students need gym strip (athletic shoes, shorts, T-shirt) for every class. Students participate in a variety of sport and fitness related activities with a variety of individual and team concepts covered. Students also cover a variety of health topics.

FRENCH 8 (English students)

This course provides many opportunities for students to explore speaking, reading and writing skills in the French language. There will be a greater focus on writing skills than there was in Grade 7. Students will have opportunities to use French to communicate. Opportunities will be provided to learn about

the French culture and to experience creative works concerning the French language and culture.

FRANÇAIS LANGUE 8 (French Immersion students)

Français langue 8 is a full year course that continues to emphasize oral French practice, reading, writing, speaking, and listening as well as learning about French culture. This involves comprehension, personal response, critical analysis, and knowledge of language, composing and creating, improving communication, presentations, personal awareness, working together and community building.

CAREERS EDUCATION 8 – ÉDUCATION À LA CARRIÈRE ET SANTÉ 8 (Integrated)

This curriculum is designed to help students develop skills in improving self-confidence, communication and decision-making. Students explore natural and learned interests and skills integrated with future career opportunities and experiences. In addition, Career & Health Education represents a continuum of learning, developing and building on key concepts and abilities from year to year. This will enable students to become informed decision makers and active participants in planning and taking responsibility for their own lives.

GRADE 8 EXPLORATORY COURSES

Students will receive a rotation of exploratory classes during two of their blocks. Exploratory classes may include some of the following (this list is subject to possible changes). Students do not pick from these classes, this information is only provided as a sample for students. Students rotate by term to three different exploratory courses during each block.

ART 8

This course allows participants to explore a variety of artistic processes and materials. Students will improve their design and creative thinking skills while learning about artists, art techniques and strategies for developing personal imagery. Studio activities include painting, drawing, printmaking and sculpture (clay and mixed media).

DIGITAL INQUIRY 8

In this course, we will learn how we want to connect and interact with the digital world, how we want to represent ourselves, and how we can make an impact in positive ways. Together, we are going to celebrate what we already know about our digital world while furthering our technological skills. The goal of this course is to develop a better understanding of how technology impacts us, the people we know, and our world.

DRAMA 8

In this course, students have the opportunity to learn the techniques of physical theatre, mime, melodrama and beginning script work. An emphasis on group work, collaboration, creativity and imagination is stressed throughout the course. Through active participation in drama games and group activities students have the opportunity to develop specific theatre skills such as scene building, acting, and scriptwriting.

HOME ECONOMICS 8

This is a continuation of food preparation techniques and nutrition, as well as sewing techniques. Part of the course will consist of demonstrations and lab work in a kitchen. The other part will be spent constructing a pair of boxer shorts. This will allow students to expand their knowledge, improve their skills, and build more confidence in the kitchen and on a sewing machine.

TECHNOLOGY EDUCATION 8

This is a continuation of the grade seven course in developing good work ethics and safe work

procedures in woodwork and drafting using traditional tools and techniques. By making the rack puller, whirly-gig, balancing toy and candy man, the students will gain confidence and skills in the use of power tools.

Students will learn basic operations on:

- Drill press
- Scroll saw
- Band saw
- Wood lathe
- Disk sander
- Spindle sander
- Router
- Hand tools

Students have the option of completing the learning outcomes of this course without paying for the materials used, however, the project materials used will then be of a different quality, projects will be smaller and students will not be allowed to take the finished project home.

VIDEO PRODUCTION 8

This is a hands-on technical course that requires independent individual and group work. Working in crew's, students will learn skills in pre-production planning, camera handling and operation, shooting techniques, appearing on-camera, and voice-overs. Additionally, media literacy skills will be integrated into class assignments and projects. Responsibility and focus are integral for the successful Video Production student. Teamwork, communication, and collaboration are skills that are actively developed in this course.

GRADE 8 ELECTIVE COURSES

Grade 8 students may choose to take Band 8 or Choir 8. These are full year courses for students. Students taking Band or Choir as one of their blocks will receive one block of Exploratory courses.

BAND 8

Prerequisite: Band 7 or Band teacher's permission

This course will emphasize developing good performance techniques, intonation, tone quality, and the ability to read music independently. Performances will be as permitted in accordance with COVID guidelines.

CHOIR 8

Students in this course will experience the fun and challenges of singing in an ensemble. They will learn excellent singing technique, music reading skills, and are exposed to a variety of vocal styles including folk songs, classical, vocal jazz, musical theatre and pop. Members of the choir will be expected to perform as permitted by COVID guidelines.

GRADE 9

GRADE 9 REQUIRED CURRICULAR COURSES

Students are required to take all of the following courses.

ENGLISH 9

English 9 encourages students to develop an understanding and appreciation of literature in the forms of novels, short stories, non-fiction, poetry and drama. Within these forms of literature, students will examine note-taking and summarizing, interpreting details and drawing conclusions, main ideas, plot, conflict, themes, characters, literacy technique, figurative language, sound devices and poetic forms. Students will expand upon the exploration of personal, societal and cultural values studied in grade 8. Emphasis will continue to be placed upon writing skills, oral communication and listening skills.

SOCIAL STUDIES 9 – SCIENCES HUMAINES 9

Socials 9 uses content and inquiry from the development of Canada from European and First Peoples contact through to Confederation as well as explore revolutions, such as the French, Industrial and American Revolution, Canada's diverse history, and other facets to illustrate and explore 4 main ideas: 1. Emerging ideas and ideologies profoundly influence societies and events. 2. The physical environment influences the nature of political, social, and economic change. 3. Disparities in power alter the balance of relationships between individuals and between societies. 4. Collective identity is constructed and can change over time.

MATHEMATICS 9 – MATHÉMATIQUES 9

Math 9 builds on the foundations set out in Mathematics 7 and 8 where students have gained competence in arithmetic operations with fractions, decimals, integers and percent. Math 9 is made up of topics on understanding, explaining and solving algebraic equations, along with some more abstract algebraic concepts. Students will explore rational numbers, linear relationships, exponent laws, proportional relationships, scale diagrams, financial literacy and statistics in society. Students will be expected to show their ability to reason logically along with explaining and justifying their thinking. Depending on graduation plans, academic achievement and work habits, some students will continue on into Foundations and Pre-Calculus 10, while others will enter into either Workplace Mathematics 10, or Pre-Advanced Placement Math 10.

SCIENCE 9 – SCIENCES 9

The big ideas of this course allow students to develop an understanding and appreciation of science in the world around them and how it affects them in everyday life. This course focuses on topics such as safety, scientific method, technology, reading and interpreting graphs, reproduction, atoms and elements, characteristics of electricity, and the spheres of the Earth. In this course, students may be evaluated on an array of activities including labs, research projects, demonstrations, presentations, assignments, quizzes and tests.

- **Physical and Health Education 9**

Physical Education 9 requires active participation of all students. Students need gym strip (athletic shoes, shorts, T-shirt) for every class. Students participate in a variety of sport and fitness related activities with a variety of individual and team concepts covered.

- Physical and Health Education – Golf Academy or Soccer Skills Academy 9
Dr. Knox offers two multi-graded sports academies: Golf and Soccer Skills Academy. Applications forms are available at the school as well as on-line. See application forms for more information about each of these programs. Students must select the desired academy and complete the application process by the course selection due date.



DR. KNOX GOLF ACADEMY 9

Dr. Knox is again offering the Dr. Knox Golf Academy (DKGA). This program combines a learn, practice, and play philosophy and is supported by a number of local golf courses and related golf businesses. This program applies to any grade 9 student, male or female, who is passionate about their golf.

Selected students will attend regular Dr. Knox classes and the golf academy will replace their regular PHE course. Students will receive instruction from fully accredited C.P.G.A. professionals. Golf theory, fitness, practice, along with other selected PHE opportunities will occur through the winter months (December to Spring break). **The cost is \$350/student for the year.**

The Golf Academy will regularly travel to the Kelowna Golf and Country Club and World Beat Family Golf driving range. As well, there may be outings to other golf facilities and presenters coming to our school (winter months). We are continually seeking out the support of other businesses and organizations that can assist DKGA students in following their passion for golf.

For full details and the application form please visit the [Dr. Knox Website](#) or pick one up at the front office. If there are questions about the academy, contact Mr. Roberts (ph.) 250 870-5130 Ext. 6407 or email: david.roberts@sd23.bc.ca

FRANÇAIS LANGUE 9 (French Immersion students)

Français langue 9 is a full year course that continues to build on the language structures covered in the past two years. Speaking, listening, reading, and writing in French with more ease is targeted to prepare students for français langue 10. Students continue to develop and build confidence in their communication skills as well as deepen their understanding of language as a cultural tool that defines identity, values, and affirms ideas.

CAREER & HEALTH EDUCATION 9 – ÉDUCATION À LA CARRIÈRE ET SANTÉ 9

(Integrated curriculum – not a block in student timetables)

This integrated curriculum is designed to help students develop skills in improving self-confidence, communication and decision-making. Students explore natural and learned interests and skills integrated with future career opportunities and experiences. In addition, Career & Health Education represents a continuum of learning, developing and building on key concepts and abilities from year to year. This will enable students to become informed decision makers and active participants in planning and taking responsibility for their own lives.

GRADE 9 ELECTIVE COURSES

Grade 9 students may choose 3 elective courses. These are full year courses.

ART 9

This course encourages students to use image development techniques and explore new artistic processes. Studio projects and sketchbook assignments are designed to foster creative thought and allow students to develop personal imagery through a wide variety of media such as pencil, collage materials, paint, printmaking supplies, sculpture materials and clay. Those wishing to begin working towards a portfolio of work will find many suitable projects within this course.

BAND 9 (Prerequisite Band 8 or Band Teacher's Referral)

This course will emphasize good performance techniques, intonation, tone quality the ability to read music independently while working as an ensemble. Musicians will study of different styles including samples of marches, chorales, swing, rock, Latin, ballads and programmatic pieces. Performances will be as permitted in accordance with COVID guidelines.

CHOIR 9

Students in this course will experience the fun and challenges of singing in an ensemble. They will learn healthy singing techniques, music reading skills and be exposed to a variety of vocal styles including folk songs, classical, vocal jazz, musical theater and pop. Members of the choir will be expected to perform as permitted by COVID guidelines.

DRAMA 9

Students will continue the development of specific theatre skills with an emphasis on working comfortably in front of an audience. Be prepared to be fun, creative, and daring while performing and participating fully in a variety of drama activities and theatre skills. Some of our units include vocalization, physical expression and movement, improvisation, creation and development of an original character. Solo and group performances will regularly occur throughout the course, providing the opportunity for personal development.

FOODS 9

This course is designed for those who enjoy preparing their own meals and have a desire to prepare appetizing and nutritious foods. The purpose of the course is to provide opportunities for students to develop skills to prepare food while adapting ingredients, techniques, and equipment. Some highlights of this course include cooking and baking fundamentals, international cuisine, household

staples, and exploring their own interests and tastes.

FRENCH 9

Students will be expected to focus on comprehension and communication of meaning, with an increasing focus on interaction. Opportunities will be provided to experience and respond to a range of Francophone works. Throughout the year students will be encouraged to build on their knowledge of Francophone culture. Although French or a second language is not mandatory for University entrance in all faculties, it is often required to graduate from the institution.

INDIGENOUS STUDIES AND LEADERSHIP 9

This course is open to all students. We will incorporate the teachings of the local slyix Four Food Chiefs, as well as other Indigenous perspectives, into our learning of culture, history and language. Use of worldview perspectives will encourage students to identify and share their cultural identities and knowledge. Through the experiences of land-based learning, students will be encouraged to develop new skills and strengthen their sense of belonging to the land/school/community. Participation in this grade 9 course will provide a background of knowledge for the KSS Indigenous Academy courses.

LEADERSHIP 9

This course is designed for students who have a strong work ethic and wish to experience leadership roles at Dr. Knox. Students in Leadership are expected to create, plan, and organize activities for all grade levels through theme events, in school and community projects, and assemblies. All Leadership students have required service hours, within the school and the community that must be achieved for each term. Applicants must be willing to be vocal, active proponents of school spirit, and strong positive role models at all times. Students receive training and are involved in the following:

- Organizational and technical knowledge to participate in a wide range of activities.
- Social, leadership, and communication skills which promote high standards of behaviour and positive relationships with others.
- Attitudes and behaviors that will encourage participation in and enjoyment of school and community activities, and an overall respect for others and the climate within our school.
- Organizing, promoting, conducting many of the school's spirit or theme days, school assemblies, school dances; these activities may run in or outside the actual school day/week.
- Scorekeeping and possibly minor officiating of extra-curricular school sports.
- Participation in feeder school or community events, such as the Watson Road, Bankhead, or North Glenmore Spring Fairs or Family Dances, and possibly "Terry Fox Run."
- Staff appreciation days, student/grade sporting events, such as Grade 7 or 8 Softball tournaments, Grade 7 Track Meet.
- Operation of our school store, such as stocking and selling items, making change, learning about inventory as well as gross and net profits.
- If COVID 19 protocols are still in effect for September 2021, the course description, expectations and evaluation will be adjusted to accommodate that.

Students must complete questionnaire.

MAKER 9

In Maker 9, students will dive deeper into Design Thinking. This is the process that innovators in art, literature, music, science, engineering, and business use to create amazing things. Makers use emerging technologies and techniques and a do-it-yourself mentality to learn by doing. Students will work through design process in multiple ways and will use building challenges, 3-D printers, computer coding, electronics, robotics, Lego and more. Multiple media may be used including paper, plastic, fabric, metal, wood and will upcycle materials for reuse in their projects. If you love to create and design, this may be the course for you.

METAL AND WOOD TECHNOLOGY 9

This is a more advanced course in the development of good work ethic and safe work procedures in wood and metal. Technology used in this course:

- Wood - use of table saw, router, cut off saw, thickness planer, jointer, band and scroll saws, and drill press
- Metal - metal lathe, chop saw, spot welder, squaring shear, Beverly shear, drill press, solder techniques, and oxygen acetylene welder

SEWING 9

This course will build upon skills learned in grade 8. Students will participate in multiple different types of projects to develop a breadth of skills. We are diving into reducing waste and reusing materials where possible as well as minimizing the waste we create. Possible projects for this course include: quilted items, t-shirts, hoodies, crochet & knit items, embroidery, thrifting/alterations, & upcycling old clothes. Once students have had experience in a variety of textiles, they will then make choices to focus on 1 or 2 they enjoyed for final, self-guided projects. Skills developed in this course include pattern reading & using, taking and reading measurements, sewing with zippers, knowing the difference between seam allowances & fabrics, altering, and hand needle crafts.

SPANISH 9

In Spanish 9, we will explore the broad, rich world of Spanish speaking language and culture. Students will also explore the food, geography, literature, film, arts, and sports from Spanish speaking countries around the world. Students will be introduced to listening, speaking, reading, and writing in Spanish, with an initial focus on basic conversation, and moving on to student-led areas of interest.

VIDEO PRODUCTION 9

Making, posting and watching videos are part of everyday life. Learn the essential skills to reach your audience with video, making your posts, Vlogs, and Youtubes look and sound better.

This is a hands-on technical course, continuing the concepts learned in Video Production 8 that requires independent individual and group work. Responsibility and focus are essential traits for the successful Video Production student. Students will work in crews and learn to write, shoot, and edit their own productions. Skills in pre-production planning, camera handling and operation, shooting techniques, appearing on-camera and voice-overs, troubleshooting, digital editing and post-production are covered. Both students new to video and those who have successfully completed Video 8 are welcome to take this course.

YEARBOOK AND DIGITAL MEDIA 9

This class will be responsible for publishing the Dr. Knox Yearbook. We will be contributing and collaborating in order to cover school events, design pages, and plan the yearbook in order to accurately represent our school. We will learn about a variety of things including digital photography, graphic design, journalism, and use of online software to design and publish the yearbook. A portion of the course will also be spent inquiring about the digital aspects of our current world and looking at the positive and negative implications of current and future technologies. In this course, there will be an emphasis on spreading positivity, being inclusive of others, and personal development.

20% INQUIRY 9 – "A Self-Directed Project Based Learning Experience"

Have you ever wanted to use your class time to learn about something you are passionate about? Something you have always wanted to know more about, but never had the time or opportunity? Do you often say to yourself, "I wish I knew how to do that", or "I have always wanted to create that"? If you have answered yes to any of these, then 20% Inquiry is the course for you! This course will provide you with the time and opportunity to choose the topics you want to learn about and design

your own project. This elective will help you identify your real interests, how to generate an inquiry question, and to learn and apply research skills. Some examples of students' inquiry topics have included website design, digital art, coding a video game, publishing a novel, learning the science behind basketball to improve your shot, creating and selling a t-shirt brand, and learning to confidently use sign language. What's your time of brilliance going to be?

ROBOTICS

In this course you will be introduced to many concepts around design, control, programming and construction of robots. You will be working with both block based coding and logic based programming platforms. Different robotics platforms will be used including: Lego robotics, Micro:bit robots and Arduino microcontrollers. You will be working individually and with teams to complete various challenges and design competitions. You will be constructing and programming your own robots and will be applying your skills to modify and control your robot. In addition, you will be learning skills around electrical circuits and electronic components that are key elements of robots.