

# Course Selection Handbook

2023-2024

Grades 9—12



**QUEEN ELIZABETH  
SECONDARY SCHOOL**

# Mission Statement



At Queen Elizabeth our mission is to be  
a safe and respectful learning community where  
all students will prepare intellectually, socially, and  
emotionally for their journey in a changing world.

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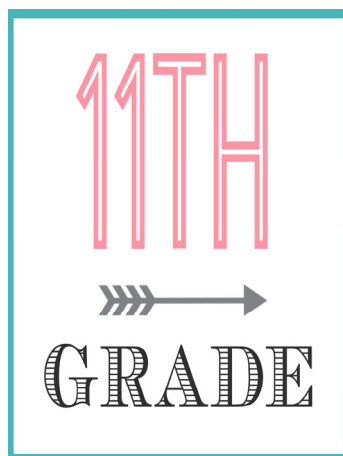
# GRADE 9 PLAN

## What courses do I need to take?

1. English 9
2. Mathematics 9
3. Physical Education 9 (Boys/Girls)
4. Science 9
5. Social Studies 9
6. Applied Design Skill and Technology Elective (A.D.S.T)
7. Fine Arts Elective
8. Modern Language (Suggested or wait for Punjabi 10)

## NOTE

- At least one of the electives must be Fine Arts (Dance, Drama, Music or Visual Arts) and at least one of the electives must be an A.D.S.T. (Technology Education, Information Technology, Home Economics or Business Education).
- Students must first fulfill requirements for both "ADST Elective" and "Fine Arts Elective" before being eligible for another elective choice.
- Students are strongly encouraged to continue selecting a language class as an elective for as long as possible.
- Students begin the Graduation Program in their Grade 10 year. Careful and thoughtful selection of electives during Grade 9 is important in the beginning to identify a focused area of study which students will be asked to consider and choose as they enter the Graduation Program.



## GRADE 10 PLAN

### What courses do I need to take?

- English Language Arts 10
- Social Studies 10
- Science 10
- Math 10
- Career Life Education 10
- Physical Education 10
- Numeracy Assessment
- Literary 10 Assessment
- 4 credits of Fine Arts or Applied Skills

## Grade 11/12 PLAN

### What courses do I need to take?

- English Language Arts 11 & 12
- Social Studies 12
- Math 11
- Science 11 or 12
- Career Life Connections 12
- Literary 12 Assessment
- **\*\*NEW\*\*** Indigenous –Focussed Graduation Requirement (see next page)
- Total of 80 credits

4 courses (16 credits) must come from Grade 12!

For more information, see your counsellor



# Indigenous-Focussed Graduation Requirement

## Indigenous Graduation Credit

As part of the Province of British Columbia's commitments to truth, reconciliation, and anti-racism, the Ministry of Education and Child Care (the Ministry) is implementing an Indigenous-focused graduation requirement for students working toward a B.C. Certificate of Graduation (Dogwood Diploma) in English or French.

The new graduation requirement, which comes into effect in the 2023/24 school year, is an exciting and important next step in the K-12 sector's ongoing journey towards truth and reconciliation, which has included integrating Indigenous perspectives, histories, and cultures across the curriculum, into professional development opportunities for educators, and into the BC Teachers' Council's Professional Standards for BC Educators.

The Indigenous-focused graduation requirement will provide all students with time and opportunity to develop deeper understandings and a broader knowledge base of Indigenous peoples, communities, cultures, histories, and contemporary contexts. This is an important part of the K-12 sector's mandate to develop the Educated Citizen, which can in turn help to promote diversity, equity, and inclusion in our schools and communities.

The graduation requirement also provides an opportunity for schools and school districts to consult and collaborate with First Nation(s) on whose territory they are located.

### GRAD 2024

- All grade 12s will take **English First Peoples 12** as their primary Language Arts 12 credit
- Option to also take **Contemporary Indigenous Studies 12** (social studies credit)

### GRAD 2025

- Option to take **Contemporary Indigenous Studies 12** (social studies credit) in grade 11 or 12
- Option to take **English First Peoples 12** as their primary Language Arts 12 credit in grade 12
- All students **MUST** take *at least* one of these courses in **either** grade 11 or 12#



# Applied Skills - Home Economics

## **Textiles Studies 9**

Students will make interesting and useful projects using commercial patterns and will become familiar with the proper use of the sewing machine, serger and other tools of the textile trade. Students will learn fitting and pattern adjustment practices, study design fundamentals and apply them to wardrobe planning and the garments they choose to create. Projects may include shorts, stuffed animals, bags, pull-over hoodies, shirts, pyjama pants, etc.

## **Textiles Studies 10**

Students will make interesting and useful projects using commercial patterns and will become familiar with the use of serger, sewing machine, computerized embroidery machine and other tools of the textile's trade. Areas of learning focus on fitting and pattern adjustment practices, design fundamentals, wardrobe planning, as well as practicing and expanding on various sewing techniques. Students may work on various projects including stuffed animals, zippered hoodies, accessories, shirts, dresses, skirts, and pants. This course allows students the opportunity to fulfill applied skills requirements for graduation.

## **Textile Studies 11**

Students will make interesting and useful projects by manipulating commercial patterns to fit their specifications. They will use all textile machines such as the serger, sewing machine, computerized embroidery machine and textile tools to create unique garments and textiles items. Areas of learning include the study of fabrics, textile fundamentals, textile products, consumerism, culture, and tradition. Student projects can include a jacket, culturally inspired bag, pants, dresses, quilt, knit or crochet items like scarves, headbands, and small animals.

## **Textile Studies 12**

Students will make interesting and useful projects by manipulating commercial patterns to fit their specifications as well as learning about pattern drafting. They will use all textile machines (serger, sewing machine and computerized embroidery machines) and textile tools to create unique and complex garments and textile items. Areas of learning include the study of fabrics, textile fundamentals, consumerism, culture, traditional textile products and advanced techniques and technologies to produce textile items such as a grad dress. Projects are usually chosen by the student in consultation with the instructor but often includes 3 projects and a major project.

## **Fashion Industry 12**

This course is for students who are interested in fashion, fashion design and the many uses of fashion in society. Students will explore topics such as social and cultural influences on clothing design, global and local fashion supply chains, marketing, merchandising and trendsetting strategies, ethics, cultural appropriation and more. The skills learned in this course are transferable from the classroom to the competitive fashion industry.



# Applied Skills - Home Economics

## **Food Studies 9**

An introductory course to develop an interest in and enjoyment of food. Students will learn about ingredients, equipment, and food safe practices. Skills and abilities in food preparation will be developed and students will complete the course being able to cook and bake independently. Students will make recipes from a variety of cultures, and will learn about recipe design, nutrition, meal planning, ethical issues, and traditional Indigenous food practices.

## **Food Studies 10**

In this course students will develop practical culinary skills and the ability to create and design their own food products. Students will become familiar with the design process, elements of meal preparation and the relationship between eating practices, and mental and physical well-being. Other topics will include food trends, food contamination, nutrition, marketing, and various factors that impact food choice and availability.

## **Food Studies 11**

This course is designed for students with basic food skills and is also suitable for both experienced and inexperienced cooks. Students will learn the basics of food preparation and/or expand on them. They will also learn about the development and modification of recipe components and ingredients. Students interested in advancing and continuing in the field of culinary arts or strengthening their food preparation skills for home cooking need this course. Students will build on their knowledge through challenging practical labs and theoretical application.

## **Food Studies 12**

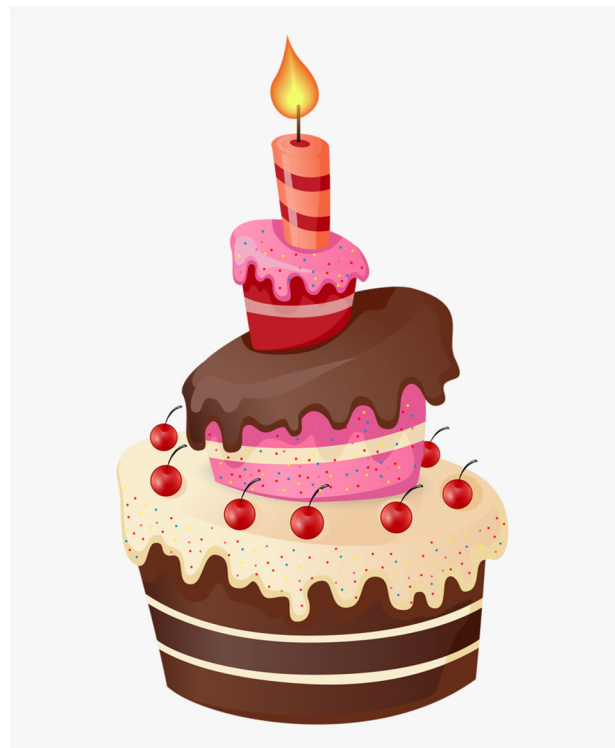
Students will take their food preparation skills to new levels in Food Studies 12. Emphasis is on the ability to use advanced knowledge and skills in food preparation to design original recipes and menus. Social, cultural, economic, health, and aesthetic aspects of food will be discussed in depth. This course also provides an opportunity to explore future career options in the food industry and to develop an individual food philosophy.

## **Pastry Arts and Baking 11**

This is an introductory course which focuses on developing skills and techniques in baking. Students will broaden and challenge their skill set through and use of challenging recipes and a wide variety of equipment and ingredients to create a desired product. The emphasis will be on baking theory, practical knowledge and skills building, prep skill, time management and production. This course will be valuable for any student who wants to learn and develop introductory and foundational skills in baking and pastry. The foundational skills learned in this course are transferable to Pastry Arts and Baking 12 and Food Studies 12.

## **Pastry Arts and Baking 12**

This course focuses on advanced skills and techniques in baking. Students will broaden skill sets through the use of elaborate recipes and a wider variety of equipment and ingredients. This course will be valuable for any student considering opening a business of their own. The skills learned in this course are transferable from the classroom to the competitive service industry.





# Applied Skills - Home Economics

## **Family and Society 10**

This course is designed for students as an introductory study of the “family,” including culture, societal influences, spirituality, and family relationship dynamics. We will explore topics such as healthy/unhealthy communication, interpersonal relationships, the roles and rights of children, living and housing options for individuals and families, and caregiving issues. The opportunity for simulated parenthood with electronic computer babies is available.

## **Interpersonal and Family Relationships 11**

This course is designed for students in grades 10 to 12 who wish to study human behaviour, development and relationships and have an interest in counselling, social work, or education. We will explore topics such love and relationships, the interactive nature of self and family, personality theories, communication styles, types of interpersonal and family relationships, components of healthy/unsafe relationships, and factors involved in ending relationships. Students increase their knowledge of family and the individual via a variety of interesting activities and projects such as the opportunity for simulated parenthood with electronic computer babies.

## **Child Development and Caregiving 12**

This course is designed for students in grade 10 to 12 who wish to pursue a career or have an interest in the study of development and caregiving of children. Students will learn about various topics such as pregnancy, different stages of child development from birth to age 12, legal rights and responsibilities of caregivers, nutritional needs and feeding practices, cultural influences on childcare and the ethics of cultural appropriation in childcare. Students will increase their knowledge of childcare through a variety of interesting activities and projects such as the opportunity for simulated parenthood with electronic computer babies.



## **Culinary Training 11**

Culinary Training 11 is an introductory course for students interested in food preparation. You will prepare large quantities of a variety of foods including sandwiches, salads, soups, desserts, and a daily entrée using a variety of vegetables, meats, poultry and fish using different cooking techniques. You will taste and eat the foods prepared in the cafeteria. You will have the opportunity to participate in some “in school” and “after school” catering. You will be trained to use commercial equipment, practicing Work Safe procedures and safe food handling practices. Students will have the opportunity to receive Food Safe Level 1 Certification. This is an excellent course to have on your resume if you wish to find work in a restaurant.

## **Culinary Training 12**

Culinary Training 12 is designed with greater in-depth training in all aspects of cooking emphasizing food presentation, nutrition, and menu and recipe development. Students will develop a good work ethic and leadership skills. You will prepare large quantities of a variety of foods including sandwiches, salads, soups, desserts, and a daily entrée using a variety of vegetables, meats, poultry and fish using different cooking techniques. You will taste and eat the foods prepared in the cafeteria. You will have the opportunity to participate in some “in school” and “after school” catering. You will be trained to use commercial equipment, practicing Work Safe Procedures and Safe Food Handling Practices. Students will have the opportunity to receive Food Safe Level 1 Certification. This is an excellent course to have on your resume if you wish to find work in a restaurant.



# Applied Skills - Technology Education

## **Junior Animation 9/10**

Have you ever wanted to develop your own 3D characters/objects like the cars or building in a favourite video game or movie? Or wonder how companies like PIXAR add life to 3D objects? In junior animation, students have the opportunity to practice the skills and techniques used by the gaming and film industry to create digital animations using the industry leading Autodesk 3Ds Max program. The course covers character creation, giving character's life-like features such as jumping and moving. Students will create a four-to-five minute animated short video including a digital soundtrack as well as a 3D printed project of their own design! Students may also have the opportunity to 3D print final projects!

## **Senior Animation 11/12**

Senior Animation is for students who are interested in learning or furthering their knowledge and work with 3Ds MAX on the computer for animation purposes. Vancouver is home to several 3D modeling studios such as EA (Electronic Arts located in Burnaby BC) that offer hundreds of jobs to 3D modelers and animators. Senior animation offers new students' exposure to modeling techniques used in the industry. Returning students will have the opportunity to focus on a more advanced approach to scene creation, special effect lighting and rendering. Students will submit a custom animation at the end of the semester. Students may also have the opportunity to 3D print final projects!

## **Film & Television 11/12**

Film & Television 11/12 will educate students about the positive impacts they can make through different visual media. By working on ventures such as short films, daily/weekly announcements, and various other visual projects, students will be able to connect with a large majority of the school population. Whether it is covering different school events, interviewing departments, teams, coaches and teachers, this course will consistently aim to focus on building school community and culture. Students will be using video editing and other film software to portray what is going on in and around the school community, whether it is in the past, present, or future.

## **Power Technology 9/10**

This introductory course covers the basics of power generation and transfer from combustion engines (2 stroke and 4 stroke), electric motors (power curves, torque, and horsepower) and other green and renewable energies (solar, wind, tidal and geothermal). Additionally, students will learn about and use basic hand tools and power tools to complete tasks within the course. Engine building, alternative energies and aviation are all projects visited in this course.

## **Automotive Technology 11/12**

Automotive technology is an introductory course designed to give students a basic understanding of an automobile and some of its essential systems. Paired with theory, practical work, such as oil changes, brake servicing, engine rebuilding and computer scanning in our automotive shop will allow students to gain experience and confidence around vehicles as well as the tools and equipment required to complete tasks and repairs. If you plan on a career in automotive or plan on owning a vehicle in the future, this course will provide you with the knowledge for minor repairs, maintenance, and entry training for post-secondary.



# Applied Skills - Technology Education

## **Junior Woodwork 9/10**

Level 1 students will receive a hands-on introduction to woodworking processes with an emphasis on the development of practical skills, design work and problem-solving ability. Students will read and interpret plans, calculate costs, follow written instructions, and fabricate projects using wood and wood composite materials and become familiar with the safe use of tools and machines. Teacher-directed projects have been designed to encourage the learning development of students, but many aspects of design are left up to the student.

## **Senior Woodwork 11/12**

Level 2 students will be encouraged to expand their skills, design/problem solving ability and knowledge of wood and wood related machinery. Teacher selected projects have been designed to promote student development. Individual design of a project may be possible subject to instructors' approval.

## **Junior Metalwork 9/10**

Junior metalwork is a level-based course that is designed to provide students with safety, theory, associated hands-on skills, metal/tool identification, and the usage of metal to create. Course objectives will include measurement, layout, cutting, welding, fastening, and finishing. As students' skills and understanding of metalwork develop, this will give them many options of a variety of projects to complete as they demonstrate their knowledge learned.

## **Senior Metalwork 11/12**

As a continuing course from junior metalwork, students will build on basics they have learned with new techniques and equipment. Larger and more intricate student projects will be planned and researched by students and then drafted to create a build plan. This will lead to less material waste, efficient use of shop time and completion of successful projects. Course objectives may include welding, heat treatments, metallurgy, precision measurement and stationery and handheld power equipment.

## **Junior Drafting and Design 9/10**

Junior drafting is a level-based course where students will be introduced and expand into the exciting work of Computer Aided Design (CAD). This course covers basic drafting principals and techniques that are used by companies to design the products we use every day. These skills will allow students to communicate ideas and designs and solve real-world problems. Students will demonstrate these principals and skills through instructor assigned labs which will lead into assignments/projects that may include 3D printing.

## **Senior Drafting and Design 11/12**

This course is an advanced course stemming from Junior Drafting and Design. This course will include a continuation of problem-solving approaches in orthographic (2D), and isometric projection (3D-solids). An emphasis will be placed on practical application of skills learned to solve technical related problems with projects in both engineering and architectural settings. Individual inquiry-based projects are the focus of this course.



# Applied Skills - Technology Education

## Junior Electronics and Robotics 9/10

Ever wonder how circuits like a PlayStation controller or speaker work? Have you ever wanted to build and drive robots? Junior Electronics and Robotics is a level-based course that will provide students with the skills to recognize the function of basic electronic and robotic components through labs and hands on projects. During projects, students will learn to use hand and power tools to prototype and create their projects. Students will learn how to construct printed circuit boards, how to solder, modify and build custom enclosures. Students in level 2 will also be introduced to Arduino programming. Students will have the opportunity to design, build and drive robots during in-class competitions. This course is available to all students in grade 9 or 10 who are interested in electronics and robotics.

## Senior Electronics and Robotics 11/12

Have you ever wanted to build your own robot? Or program projects that interact with your code, input devices or sensors? Senior Electronics and Robotics is a level-based project oriented course that allows students to learn and develop skills using tools and computers. Senior Electronics and Robotics focuses on electronics theory while applying more advanced robotics and coding on projects. Students will expand on circuit prototyping and development and revisit the Arduino for project coding. This course will offer the use of the same materials, but with an expanded component of audio, digital, and light circuits such as the LED cube or Arduino Robot. In this course students have the option to complete projects that interest them ranging from computer-controlled games to iPod stereos. Senior Electronics and Robotics is offered to all grade 11 and 12 students.

## Junior Technology & Engineering 9/10

Junior Technology is a course designed to learn, build, and understand many of the technologies around us every day by asking questions and discovering the answers. Students will be given real-world challenges to work independently and collaboratively with other using the design cycle to understand how things work. This is a project-based course based on problem solving skills and collaboration, while continuously assessing the impacts of technologies on the environment and society.

## Senior Technology & Engineering 11/12

Senior Technology is designed to further the understanding of basic concepts learned in junior technology and engineering, while broadening the field of what makes something a technology. In this course, students will practice fine motor skills while they prototype, create, and revise their projects around critical thinking to achieve an end goal in the following possible areas: Engineering, Energies, Aviation and Robotics.





## Inter-A

## Information & Communication Technologies 9

This course presents students with fundamental business and computer skills required to be successful in the 21st century. Students will learn to develop good keyboarding habits through practice exercises and testing. They will use Microsoft Word, PowerPoint, Excel, and GoogleDocs with more advance techniques than previously learned. Students will be introduced to topics in Entrepreneurship and Marketing and creating their own websites and blogs using Weebly and Wordpress accounts. Students will study communication skills required in society and technologies used in business. They will also examine various tools and programs for computer programming (coding). Upon finishing this course, students will be able to evaluate different applications and defend their use in solving problems, data retrieval, and editing.

## Entrepreneurship and Marketing 10

This course will cover the basic understanding of business in Canada and Society. Students will gain basic skills in the function and use of marketing, business communication, entrepreneurship and how each relates to our unique business environment. Students will also gain an appreciation and understanding of global business. With an emphasis on creative and critical thinking, students will use a variety of mediums both independently and cooperatively in order to begin to acquire the necessary skills and awareness to participate in the Business Community. Computers will be used as tools for research and business applications. Students who take this course will have opportunity to participate in “QE Dragon’s Den,” and also will do a unit learning about the Sports and Entertainment industry.

## Web Development 10

This course provides students with an opportunity to learn about the structure and content of HTML, CSS, JavaScript, and block coding. Students learn about the benefits and drawbacks of online websites and content management systems. Students learn how to create and manage databases and look at career options in web development and the interpersonal skills necessary for success in this field.

## Computer Studies 10

This course provides an opportunity to learn about computer hardware, external components and various software types and how to trouble shoot them. Students will learn about computer security risks, digital literacy and citizenship and how to plan and write simple programs. Students will also be required to study the impact of computers and technology on society and ethical issues of technology use and environmental sustainability.

## Accounting 11

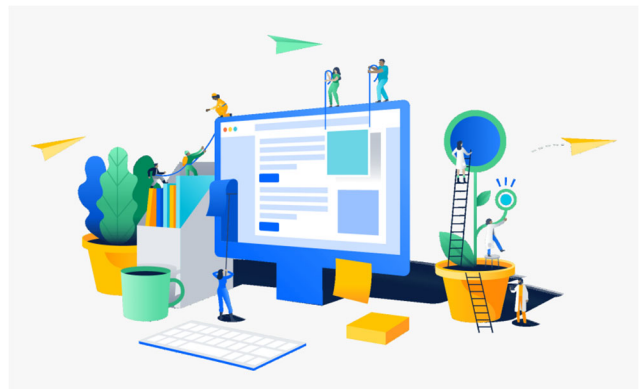
This course provides an introduction to basic accounting concepts—a system to record and summarize financial events. Students will learn how to organize data using manual methods to record, post and summarize transactions, and prepare financial statements and reports. Students learn to create balance sheets, ledgers, income statements, journaling and posting transactions. Students will also be required to interpret financial statements and predict what changes may occur to affect the financial positions of a company. Students learn how do their own tax returns in this course as well.

## Entrepreneurship 12

Students will discover the meaning of entrepreneurship and identify characteristics and skills demonstrated by entrepreneurs. They will research a variety of entrepreneurs and analyze their own entrepreneurial strengths and skills. They will study the different forms of business entities, how to begin a business, operate a business and create a business plan. Important areas covered in the setting up and operation of a small business includes: planning, organizing, controlling, strengths and weaknesses, site location, financing, human resources, promotion and innovation. Guest speakers will be invited to speak about their businesses. Students will have a chance to create their own Student Venture in this class.

## Marketing 11

A practical, activity-based course providing students with opportunities of examining the nature and role of marketing in local and global contexts as well as from a consumer perspective. Students will be encouraged to learn how marketing helps businesses determine and meet customer needs (marketing research); how businesses offer, promote and deliver products (promotions and pricing), how to develop ethical and effective ways to meet consumer needs (products), and explore the nature of the world's economy. Students who take this course will have opportunity to create their own business plan and participate in Q&E version of Dragon's Den.



# Inter-A

## **Business Computer Applications 12**

This foundation course in business communication systems develops students' skills in keyboarding, word processing, spreadsheets, databases, business communications, presentation, electronic communications and desktop publishing. Students learn the nature of business information, become proficient in choosing technology to manage it, develop interpersonal skills to share and present effectively, and examine issues of privacy and the standards of conduct associated with holding and seeking information. Students will become proficient using Microsoft Word, Excel, PPT and Publisher in this class.

## **Computer Programming 11/12**

Software developer and programmer are two exciting careers now available in the field of computer science. Who knows what the future will bring? Who will be developing computer games in 2024? This course is designed for students who have no programming experience, but have an interest in computer science. Students begin the process of describing, analyzing, and solving programming problems. This course introduces the fundamental principles of structured programming, within the context of an object-oriented language. The emphasis for this course involves relating the syntax and concepts of programming to HTML, Java, Ruby, Python and more. We will explore the concepts behind block programming used to program robots and to design games. Basic computer skills are recommended as a pre-requisite.

## **Computer Science 11**

This course offers a multidisciplinary approach to teaching the underlying principles of computation. This course will introduce students to the creative aspects of programming, problem solving using decomposition, abstractions, algorithms, large data sets, cybersecurity concerns, and computing impacts. This course gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden understanding and participation in computer science and technology. The topics covered are: number system and basic data types, basic programming concepts, variable scope, ways to construct and evaluate logical statements, use of control flow to manipulate program execution, development of algorithms to solve problems in multiple ways, techniques for operations on and searching of arrays and lists, problem decomposition through modularity, ways to model mathematical problems, big data and security, and impact of computing such as artificial intelligence.



# Career Development

## **Grade 8 Careers**

Students explore the key concepts of “Who Am I,” “Who do I want to be,” and “What kind of world am I creating.” Special emphasis is placed upon making a well-thought-out high school plan and exploring volunteering opportunities within the school community and local community. Students familiarize themselves with the MyBlueprint website and online databases.

Students will also be introduced to the Career Centre and Career Centre resources.

## **Grade 9 Careers**

Students participate in Take Our Kids to Work Day and also complete an activity based upon their understanding of the workplace, workplace safety, and future careers. Students who cannot participate on a worksite for that day, will engage in activities in class on the day. Participation on a jobsite, though, is encouraged. Students will also become more familiarised with the Career Centre and Career Centre resources.

## **Grade 10**

### **Career Life Education**

Career Life Education is a full semester course which is required for graduation and is also a pre-requisite for Career Life Connections (CLC 12). In this course, students gain valuable skills for success in school and in life. CLE covers five main topics: “Employability Skills,” “Citizenship,” “Post-Secondary Planning,” “Financial Planning and Scholarship Preparedness,” and “Well Being.” Students also participate in the Youth Philanthropy Initiative. CLE students map out their senior years of high school to ensure that they have met post-secondary program requirements and are prepared for their post-secondary life journey.

## **Grade 11/12**

### **Career Life Connections 12**

Students in Career Life Connections 12 build upon the skills and knowledge attained in CLE 10 yet at a more mature level and with a focus on planning for, and transitioning successfully into, adult life. Topics covered are: “Employment Skills and Safety,” “Post Secondary Career/Life Journey,” Financial Planning for life,” and “Well Being.” As well, students will complete the CAPSTONE project where they engage in forty hours of career life exploration; students often use this component to create a portfolio for their post-secondary endeavors, such as a business plan, research paper, or engineering creation, etc. The course activities and completing capstone are both required to pass CLC; CLC is a graduation requirement.



# Career Development

## Co-op Programs

Each co-op has a subject related theme, and, as such, students are encouraged to take a co-op which most matches their post-secondary plan, or personal interest, when possible. Co-ops provide an opportunity for students to theme specific courses while also taking CLC 12 and gaining 100 hours of valuable employability skills with the Work Experience credit. Students often take the co-op to better prepare for post-secondary and/or at the chance to gain a valuable reference to potentially acquire a part-time job to fund their post-secondary endeavors. These co-ops are highly recommended for grade 11 students who have strong attendance and a strong work ethic.

Full day co-ops consist of THREE themed courses; CLC 12; TWO Work Experience 12. (Students gain six courses in one semester as opposed to four).

Half day co-ops consist of ONE themed course; CLC 12; ONE Work Experience 12. Students also take two other courses in the co-op semester. (Students gain three courses in a half day instead of two courses in the half day).

## Full Day Co-ops

### Humanities Co-op (24 credits)

The Humanities Co-op is suited for all students wishing to explore real world issues while gaining work experience and further discovering where their interests lie. Several graduation requirements will be met following the successful completion of the Humanities Co-op, including senior English, Social Studies and Media courses, as well as Career Life Connections 12. There will be a strong focus on global issues and current events, but also on B.C.'s past, present, and future through the study of First Nations history, our politics and government, our culture, and our economic and employment outlooks. This course provides a foundation for many areas from trades and technical to academic, including social sciences, education, law, policing, and health sciences. *(Open to students in Grade 11 )*

- Composition 11
- Political Studies 12 (SS)
- New Media 11
- Work Experience 12A & 12B
- Career Life Connections 12

### Automotive Technician Co-op 11/12 (24 credits)

With a continuously changing automotive industry, automotive technicians need to be up to date with current vehicle systems, parts and diagnostics. The automotive technician co-op is designed to do just that by building on students' entry-level knowledge of vehicles, systems, tools, techniques and theory while assisting them to potentially continue into the automotive industry. A theory heavy start to the semester will be met with plenty of hands-on labs and vehicle repairs, simulated in our automotive shop. Additionally, students will take part in two work experiences placements.

*(Open to students in Grade 11 and 12)*

- Machining & Welding 12
- Auto Engine & Drive Train 12
- Automotive Technology 12
- Work Experience 12A & 12B
- Career Life Connections 12





# Career Development

## **Half Day Co-ops**

Open to students in Grade 11. If you are in grade 12 wanting to take a half day Co-op please consult with your counsellor or the career centre.

## **Science Co-op (12 credits)**

This is an intensive half day co-op which is best suited for students who are planning on a career in the health sciences, medicine, engineering, or a technical field where high academic performance is a requirement. Students will engage in hands on learning in the labs and textbook work and assignments. Course work is covered in a shortened period and at a faster pace in order to accommodate the work placement portion of the course. Students will also cover the CLC 12 content required for graduation.

- Chemistry 11
- Work Experience 12A
- Career Life Connections 12

## **Entrepreneurship Co-op (12 credits)**

This half day co-op is suitable for students applying to a business program or business-related field in post-secondary or who wish to gain skills and knowledge related to business. Students analyze real life scenarios in an engaging and interactive setting while honing their communication and other skills. Students will gain knowledge and practical skills in order to start up and run a business while also gaining marketing and accounting skills. Students often use the capstone to build their business portfolio, to work on other post-secondary portfolios, or for career exploration.

- Entrepreneurship 12
- Work Experience 12A
- Career Life Connections 12

## **Robotics Engineering Co-op (12 credits)**

In today's world, coding and electrical circuits are becoming a big part of our everyday lives.

Electricians and programmers are in very high demand in the work force and it is important students familiarize themselves with the basic skills and knowledge required for post-secondary programs. The Electronics and Robotics 11/12 Co-op is a special learning opportunity that allows students to spend time learning and developing skills to construct electrical circuits, code, prototype and design projects including VEX robotic construction and design, 3D modeling for 3D printer use, electrical theory, as well as career opportunities within the electrical field. Additionally students will take part in a work experience placement and compete in Skills Canada.

*(Open to students in Grade 11 & 12)*

- Electronics 11
- Work Experience 12A
- Career Life Connections 12



# English Language Arts

## English Language Arts

English Language Arts are designed to empower students by providing them with strong communication skills, an understanding and appreciation of language and literature, and the capacity to engage fully as literate and responsible citizens in a digital age. Students are guided in learning to think critically, creatively, and reflectively; to construct a sense of personal and cultural identity; and to be respectful of a range of perspectives and worldviews. In ELA, all six of the language arts elements (reading, listening, viewing, writing, speaking, and representing) are inextricably interconnected. The First Peoples Principles of Learning are embedded in the ELA curriculum.

## English 9

The major goal of English 9 is to provide learning strategies around the three core competencies of thinking, communicating, and personal/social learning. Through the integration of reading, writing, oral communication, viewing, and representing, English 9 is designed to develop students' language arts skills and to enhance their appreciation of literature and language, including First Peoples literature and First Peoples Principles of Learning. The activities and resources are selected to appeal to a range of interests and abilities and to foster inquiry, curiosity, and thoughtful reflection connected to the curricular competencies and 'Big Ideas' of the grade 9 curriculum:

- Language and literature help us find meaning and joy.
- Exploring stories and other texts helps us understand ourselves and make connections to others and to the world.
- People understand texts differently depending on their worldviews and perspectives.
- Texts are socially, culturally, and historically constructed.
- Questioning what we hear, read, and view contributes to our ability to be educated and engaged citizens.

## English 10

The major goal of English 10 is to provide learning strategies around the three core competencies of thinking, communicating, and personal/social learning. Through the integration of reading, writing, oral communication, viewing, and representing, English 10 is designed to develop students' language arts skills and to enhance their appreciation of literature and language, including First Peoples literature and First Peoples Principles of Learning. The activities and resources are selected to appeal to a range of interests and abilities and to foster inquiry, curiosity, and thoughtful reflection connected to the curricular competencies and 'Big Ideas' of the grade 10 curriculum:

- The exploration of text and story deepens our understanding of diverse, complex ideas about identity, others, and the world.

- People understand text differently depending on their worldviews and perspectives.
- Texts are socially, culturally, geographically, and historically constructed.
- Language shapes ideas and influences others.
- Communication empowers and engages people as citizens in the real-world.

Students will select **ONE** of the following three options as their preferred focus for English 10:

### 1) Literary Studies and Creative Writing 10

This course is designed for students who have an interest in creative expression through language. Students will build their writing skills through the exploration of identity, memory, and story in a range of genres. Students will collaborate and develop their skills through writing and design processes. As well, students will delve deeply into literature (fiction and non-fiction) as they explore specific themes, periods, authors, or areas of the world. Students will develop higher level thinking and learning skills to broaden their understanding of themselves and the world.

### 2) Literary Studies and Composition 10

This course is designed to support students in their development of written communication. Students explore and create coherent, purposeful compositions. Students will be introduced to varied structures, forms, and styles of compositions. Students will study, create, and write original pieces exploring audience and purpose. As well, students will delve deeply into literature (fiction and non-fiction) as they explore specific themes, periods, authors, or areas of the world. Students will develop higher level thinking and learning skills to broaden their understanding of themselves and the world.

### 3) Literary Studies and New Media 10

This course reflects the changing role of technology and the increasing importance of digital media and communication. Students will demonstrate their understanding and communicate ideas through a variety of digital and print media. As well, students will delve deeply into literature (fiction and non-fiction) as they explore specific themes, periods, authors, or areas of the world. Students will develop higher level thinking and learning skills to broaden their understanding of themselves and the world.



# English Language Arts

## English 11

The major goal of English 11 is to provide learning strategies around the three core competencies of thinking, communicating, and personal/social learning. Through the integration of reading, writing, oral communication, viewing, and representing, English 11 is designed to develop students' language arts skills and to enhance their appreciation of literature and language, including First Peoples literature and First Peoples Principles of Learning. The activities and resources are selected to appeal to a range of interests and abilities and to foster inquiry, curiosity, and thoughtful reflection connected to the curricular competencies and 'Big Ideas' of the grade 11 curriculum:

- The exploration of text and story deepens our understanding of diverse, complex ideas about identity, others, and the world.
- People understand text differently depending on their worldviews and perspectives.
- Texts are socially, culturally, geographically, and historically constructed.
- Language shapes ideas and influences others.
- Questioning what we hear, read, and view contributes to our ability to be educated and engaged citizens.
- Digital citizenship requires both knowledge of digital technology and awareness of its impact on individuals and society.
- People are empowered by being able to communicate effectively.
- Engagement with writing processes can support creativity and enhance clarity of expression.
- Creative writers take risks and persevere.
- Creative writers are observant of the world.
- Writers write for authentic audiences and real world purposes.

Students must choose at least **ONE** of the following courses to complete their English Language Arts requirement for Grade 11

### 1) Composition 11 (4 credits)

Composition 11 is designed to support students as they refine, clarify, and adjust their written communication through practice and revision. Students will read and study compositions by other writers and be exposed to a variety of styles as models for the development of their writing. The course provides opportunities for students to, with increasing independence, study, create, and write original and authentic pieces for a range of purposes and real-world audiences. They will expand their competencies through processes of drafting, reflecting, and revising to build a body of work that demonstrates expanding breadth, depth, and evidence of writing for a range of situations. They will develop confidence in their abilities as they consolidate their writing craft.

### 2) Creative Writing 11 (4 credits)

Creative Writing 11 is designed for students who are interested in developing confidence and refining their writing skills through self-expression for various creative purposes. The course provides students with in-depth opportunities to explore personal and cultural identities, memories, and stories in a wide range of genres. Within a supportive community, students will collaborate and strengthen their skills through writing and design processes. Creative Writing 11 is grounded in the exploration and application of writing processes, inviting students to express themselves creatively as they reflect on, adjust, and extend their writing skills.



# English Language Arts

## **3) Literary Studies 11 (4 credits)**

Literary Studies 11 allows students to delve deeply into literature. Students can explore specific themes, periods, authors, or areas of the world through literary works (fiction and non-fiction) in a variety of genres and media. Giving students the choice of a range of literary topics allows them to follow their passion while increasing their literacy skills, enhancing their expressive and receptive competencies, broadening their understanding of themselves and the world, and developing their higher-level critical thinking skills.

## **4) New Media 11 (4 credits)**

New Media 11 is a program of studies designed to reflect the changing role of technology in today's society and the increasing importance of digital media in communicating and exchanging ideas. This course is intended to allow students and educators the flexibility to develop an intensive program of study centered on students' interests, needs, and abilities, while at the same time allowing for a range of local delivery methods. New Media 11 recognizes that digital literacy is an essential characteristic of the educated citizen. Coursework is aimed at providing students with a set of skills vital for success in an increasingly complex digital world by affording numerous opportunities to demonstrate understanding and communicate increasingly sophisticated ideas through a wide variety of digital and print media.



## **All students must take English First Peoples 12 to graduate**

### **English First Peoples 12 (4 credits)**

All Grade 12 students will take English First Peoples 12 to satisfy their English Language Arts and Indigenous-focussed graduation requirements for the 2023-2024 school year. English First Peoples 12 builds on the literacy and critical thinking skills of grade 11 English and focuses on the experiences, values, beliefs, lived realities, and authentic voices of First Peoples as evidenced in various forms of text, including oral traditions, speech, poetry, dramatic work, song, film, and prose (fiction and non-fiction). The course is designed for all students, Indigenous and non-Indigenous, and is grounded in the First Peoples Principles of learning and the process of Reconciliation. The activities and resources are selected to appeal to a range of interests and abilities and to foster inquiry, curiosity, and thoughtful reflection connected to the curricular competencies, core competencies, and Big Ideas of the EFP12 curriculum:

- The exploration of text and story deepens understanding of one's identity, others, and the world.
- Oral and other texts are socially, culturally, geographically, and historically constructed.
- Voice is powerful and evocative.
- First Peoples texts and stories provide insight into key aspects of Canada's past, present and future.
- Self-representation through authentic First Peoples text is a means to foster justice.
- First Peoples voices and texts play a role within the process of Reconciliation.

### **Literary Studies 12 (4 credits) - Elective course**

In addition to English First Peoples 12, students can take Literary Studies 12, a course that allows students to delve more deeply into literature and explore the history of English literature—themes, periods, authors, and areas of the world—through a variety of literary works. Literary Studies 12 also includes modern and diverse selections and increased opportunities for students to explore areas of literature about which they are passionate. This course is designed for all students who love literature and is an ideal stepping stone for students preparing for post-secondary English courses and Faculty of Arts programs. As former QE teacher and legend Fred Calhoun was fond of saying, "Literary Studies 12 is the best course available in the high school curriculum and should be taken by everyone who wishes to be considered educated."



# Learning Support & English Language Learners

The Learning Support Program is available for students who need support and assistance in their academics. The program consists of enrolled tutorial/skill building classes for designated students and non-enrolled drop-in opportunities for all other learners. Placement in LST tutorials, Skills for Success, and ELL courses will be based on the individual learning needs of the student. Students will not choose these courses themselves—placement will be determined by a student's counsellor based on teacher recommendations and identified need.

## **LST Tutorials – Non-Credit (Grades 8- 12)**

The Learning Support program provides students with a tutorial block to support them in their education. In a tutorial block, students receive assistance and support in areas of need and build fundamental academic skills in a supportive environment. Please note that LST courses are zero credits unless otherwise stated.'

## **The Language of Math and Science**

This course is designed for students who have difficulties with math facts and understanding common terminology associated with numeracy and science. It builds on what students already know and allows them to gain confidence in their math skills. Topics may include negative and positive integers, fractions, percentages and decimals, money and finances, measurement, and general strategies on solving word problems and understanding scientific terminology. Students will engage in project-based learning to express their knowledge and learn how to work collaboratively with their peers. Entry to the course is determined by the LST department head in consultation with classroom teachers and is intended to support students in Grades 8 to 10 with an ELL background or other learning needs. Students who take this course would later be enrolled in Workplace Math 10. This is a non-credit course.

## **Skills for Success (Grades 10-12)**

This course provides direct and specific instruction to develop student knowledge, self-awareness and skills to engage learning. The course is designed to offer opportunities for cross-curricular connections and focuses on core competency development that will help learners demonstrate independence in use of skills and strategies that support learning and person goal setting. This course is worth 4 credits and students will receive credit for one course per year from grades 10 to 12.

## **ELL 1/2 (Beginner/Developing)**

Students who are new to English or who are experiencing difficulty with any aspect of English (listening, speaking, reading, and writing) will be registered in this course by counsellor based on language assessment. This is a non-credit course.

## **ELL 2/3 (Developing/Expanding)**

Students will continue to receive English language instruction (listening, speaking, reading, and writing) to build upon the skills learned in beginning/developing class. This is a non-credit course.

## **BOARD APPROVED ELL COURSES:**

### **Introduction to Academic Language ELL 10**

This course is designed for English Language Learners who have made some progress in developing their Basic Interpersonal Communication Skills already and are ready to more intently and explicitly begin developing academic English (Cognitive Academic Language Proficiency). In this course, students grow their knowledge and skills for academic communication in English through explicit vocabulary, reading, writing, speaking, listening, and viewing instruction in a sheltered environment. This course builds a bridge between students' previous learning, their personal and social identities and relationships, and the new cultural setting within which they are now interacting. This course is worth 4 credits.

### **English Language Development 11**

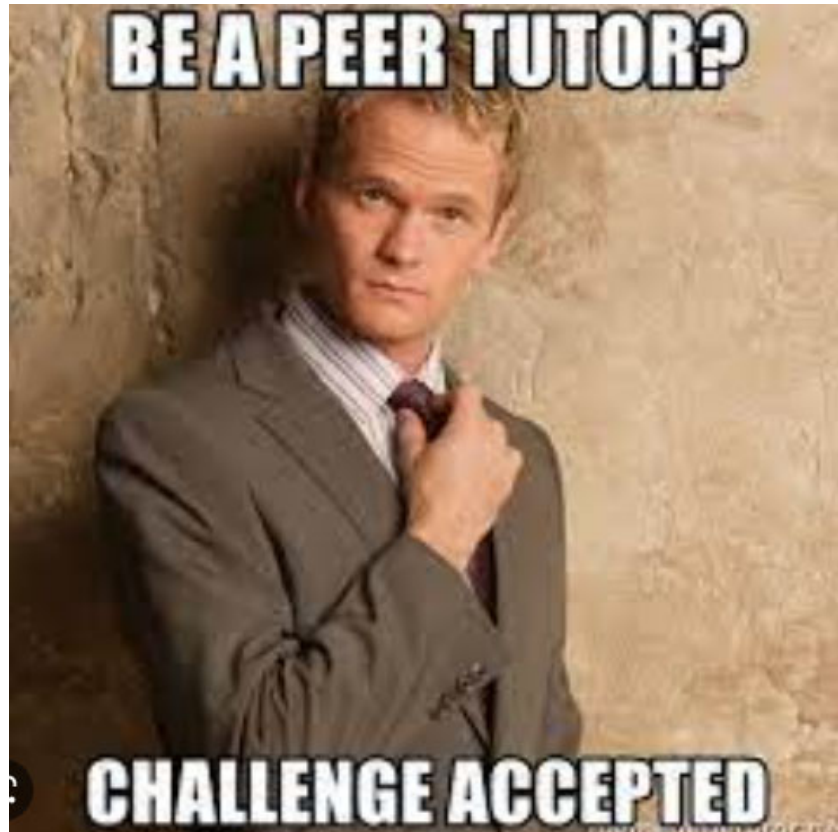
In this course, students will develop their academic English within a sheltered environment which meets the specific cultural adjustment needs of English Language Learners. This course continues to expand upon the skills acquired in Introduction to Academic Language ELL10 which are needed in order to be successful in writing, speaking, listening, and reading competencies through a variety of text genres, registers, structures, forms, and styles. This course includes elements of Canadian culture (cultural identity and First Peoples culture). This course is worth 4 credits.



# **Learning Support Team**

## **Peer Tutoring 11/12**

Peer Tutoring 11/12 provides senior students with an opportunity to work with younger students in a helping/mentoring/teaching capacity as well as sharpening their leadership skills. A peer tutor is a part of the learning support team which promotes success for all learners. Peer tutors are paired with a LST mentor teacher who guides them throughout the peer tutoring placement process. Students are encouraged to take Peer Tutoring to push themselves outside of their comfort zones and build their interpersonal capacity in working with others.



# Fine Arts - Dance, Drama & Music

## **Band 9-Instrumental Music**

Band 9 is a course that will build on skills learned in Band 8. It will allow students to continue exploration in an instrument of their choice. It will also be a course designed around opportunities to perform.

## **Band (Grades 10-12)- Instrumental Music**

This group studies and performs a variety of music, including pop, jazz, and rock. Each year, the group performs at concerts and festivals. Special emphasis is placed on developing improvisation skills, ensemble playing, forming small bands called “combos”, building of self-esteem and achieving a very high level of playing skill and musicianship.

## **Guitar 9**

This is an introductory course and is intended for students of all backgrounds, even if they have never played music before. We start with what a guitar looks like, how to hold it, and how to get a sound but by the end of the semester you will be able to play melodies and strum chords to your favorite songs.

## **Guitar 10**

This is a beginner guitar course so even if you’ve never played music before, this is a great opportunity. This course is designed to equip students with beginner guitar skills including reading notes, reading chords, group playing, group performance, basic soloing ability, healthy playing posture, playing techniques and some basic music theory understanding. The guitar is the most popular instrument worldwide because it is light and easy to carry, not very expensive and sounds great! If you have taken guitar 9, you have the opportunity to both re-learn the basics, and also to move onto book 2, if you are ready to learn more techniques.

## **Guitar 11/12**

Senior guitar classes are intended for senior students who enjoy music and would like to develop their guitar playing ability. Students who have taken Guitar 9 and/or Guitar 10 will likely be progressing onto book 3 and developing some high level skills if they feel ready for the challenge.

**Rationale:** Regular playing of music has been shown, through scientific study, to add joy to a person’s quality of life. By learning some basic guitar skills, a student has the exposure and opportunity to enter into this higher quality of life if they choose to continue. Recent studies at UBC claim that when BC high school students are actively involved in their school’s Music program, all of their work improves, even final exams in math and science!

## **Beginner Dance 9/10**

This is a beginner dance course. It is an excellent opportunity for students who have little to no experience in dance classes. This course is designed to give students basic skills in hip-hop, jazz, cultural and contemporary projects. Studies have shown that dance relieves stress and helps students express themselves through the body.

## **Intermediate Dance 10/11**

Students will delve more deeply into the intricacies of each genre. The program will include guest instructors for cultural dance and specific types of dance (i.e.. Bboy, Pop, Lock, Krump, Groove etc). You will work on group choreography projects as well as dance the choreography of others (i.e.: teacher, guest, peers). Performance opportunities include lunch-time shows, elementary school shows, semester end showcase called QinEsthetics, Surrey Schools Dance Festival as well as Outbreak which is a Surrey hip hop dance competition. This class is perfect for students who have enjoyed dance previously and are ready for more performance opportunities. Often students who have had experience performing in front of others have increased self-confidence.

## **Advanced Dance 11/12**

This course is for students who are serious about dance. Students will continue to deepen their knowledge of Hip Hop, Jazz and Contemporary dance primarily as well as some Tap and Cultural dance. Intense daily warm-ups will challenge students to push their endurance and strength to the next level. The course is intended for mainly senior students because a high level of maturity is necessary for the themes we will be tackling in choreography. This class will be taking a leadership role in collaboration projects with other classes in the school. There will be a wide opportunity for advanced dance students to perform including: lunch-time shows, elementary school shows, QinEsthetics, Surrey School Dance Festival and BreakOut/ OutBreak. There will be time committed to exploring the Fine and Performing Arts opportunities at post-Secondary institutions including a field trip to the School of Contemporary Arts in the Woodward’s SFU building. Here is a great opportunity to learn as much about dance as you can, create some lasting memories with friends and perform while it’s free!

# Fine Arts - Dance, Drama & Music

## **Drama 9**

In this course the elements of drama are explored to communicate ideas, emotions and perspectives through movement, sound, imagery and language. Correct theatre terminology is learned and practiced. Active participation creates personal and cultural connections and reveals insights into human experience. Drama also cultivates collaboration through critical reflection, creative cooperation and the exchange of ideas.

## **Drama 10**

Students will continue to explore improvisation, speech and movement. Emphasis is placed on creative scene work and original material. Personal awareness and self-discipline continue to play an important role throughout this course.

## **Theatre Production 10**

The students will be introduced to many areas of back stage work. Projects created will be coordinated with the Queen Elizabeth theatre classes. Students will learn the design process involved in stage settings, lights, props and costumes. The students will have an opportunity to display their work during Queen Elizabeth stage productions.

## **Theatre Performance 11: Acting**

Students begin to focus more on performance skills in Acting 11. Concentration is on developing voice control, gesture, stage movement and script work. Students will be presented with increasingly challenging projects and performance opportunities. Performances in front of outside audiences are expected.

## **Theatre Performance 12: Acting**

This course continues the work of Acting 11 at a more advanced level. The student will acquire a body of audition material. Emphasis is on performance and technique. Performances in front of outside audiences are expected.

## **Theatre Production 11/12 (Scriptwriting, Directing and Production)**

The focus on this course is on script writing, directing, and producing. The techniques of production and the role of the director will be examined. Emphasis is placed on the interpretive and leadership requirements of the director plus the script analysis abilities of the actors. Course work includes the essentials of script writing and the production of original work based on the imagination and values of the class.

## **Theatre Stagecraft 11/12**

Projects will be coordinated with the Queen Elizabeth theatre classes. The students will learn team work and collaboration with the theatre classes to design and create stage settings for the Queen Elizabeth productions. This class includes detailed sketching, painting, and model building. As well, students will have an opportunity to learn about the movie industry. There are possible field trips involving visiting movie and theatre sets.



# Fine Arts - Visual Arts

## Art 9

Do you want to learn how to: Draw, Paint, or Sculpt? Do you want to make your posters and projects look great? Then this is the course for you. In Art 9, students will learn all the basics that go into producing great drawings, paintings, collages, prints, pottery and sculpture. Students will learn the techniques of professional artists and be introduced to a variety of art materials. Students will have the opportunity to go on field trips, participate in art exhibitions, and create beautiful artwork that make our school look great. This course is recommended as a pre-requisite for all other art courses.

## Art 10

In Art 10, students will improve their skills in all art areas: drawing, painting, sculpture and mixed-media (collage). Students will begin to look at art with critical understanding so that they may develop their own style. There will be opportunities to work on projects of their own. Students will use a wider variety of materials and learn more techniques to produce beautiful drawings, paintings, sculpture, prints and mixed-media artwork. Students will have the opportunity to attend field trips, participate in school and community exhibitions.

## Art Foundations 11

This course is designed for both the student who has taken art courses before and for those who haven't. Students will be encouraged and supported in finding their own style at the same time as learning the skills and techniques that professional artists use. For the student intending to pursue post-secondary education in art, individual support for portfolio development and photo documentation will begin. Students will have the opportunity to participate in field trips, exhibitions in the school and in the community and produce a major artwork that will be left in the school collection.

## Art Foundations 12

This course is designed for the student wishing to continue advanced studies in drawing, painting, sculpture, print-making, and mixed media (collage). Students will be given support to develop their own ideas in art and many projects will be independent studies. For any student that does not have an extensive background in art, support will be given to enhance the skills they do have. For students intending to pursue education in a post-secondary art program, support will be given to produce and enhance portfolios, write artist statements, visit galleries and museums, and gain the ability to speak critically about art and art history. Students will have the opportunity to participate in field trips, exhibitions in the school and in the community and produce a major artwork that will be left in the school collection.



# Fine Arts - Visual Arts

## **Studio Art 10—2D (Drawing & Painting)**

In Art 10 2D students will enhance their skills in 2D media. Students will produce acrylic/canvas and water colour paintings, various print-making techniques and media as well as, all aspects of drawing. Students will be encouraged to combine any of the materials and techniques learned to produce mixed media artwork. Students will have the opportunity to attend field trips, participate in school and community exhibitions.

## **Studio Art 11—2D (Drawing & Painting)**

This course is designed to further develop student interest and skill in 2D media. It is a continuation of media introduced in Visual Art 2D 10 with an emphasis on more advanced techniques in drawing, painting and print-making. There will be opportunities for students to exhibit their work publicly, attend field trips and prepare for post-secondary art study if that is their goal.

### ***Prerequisites:***

Grade 8 rotation, one junior foundations course (Art 9, Art 10, or equivalent), and one senior foundations class strongly recommended (Foundations 11). This course is for intermediate and advanced students who are interested in immersing themselves in the media of drawing and painting and creating portfolio works for post-secondary application requirements.

## **Studio Art 12—2D (Drawing & Painting)**

This course focuses on the development of advanced skills in drawing, painting and print-making. Students will be encouraged to work on independent goals and projects. For students wishing to pursue education in a post-secondary art program support will be given to prepare portfolios and other requirements. Emphasis will be given to developing personal vision, themes and vocabulary relevant to education and career opportunities in the Fine Arts. Students will have the opportunity to attend field trips and participate in exhibitions.

### ***Prerequisites:***

Grade 8 rotation, one junior foundations course (Art 9, Art 10, or equivalent), and one senior foundations class strongly recommended (Foundations 11). This course is for intermediate and advanced students who are interested in immersing themselves in the media of drawing and painting and creating portfolio works for post-secondary application requirements.



## **Studio Art 10—3D (Ceramics & Sculpture)**

This is a course for students who wish to enhance their skills in sculpture and pottery. Materials used will include: clay, mixed media, wood, metal (wire), paper-Mache, etc. Students will have the opportunity to use the pottery wheel as well. This course will teach the basics of each of these materials and there will be time for students to create projects of their own. Students will have the opportunity to attend field trips, participate in school and community exhibitions.

## **Studio Art 11—3D (Ceramics & Sculpture)**

This course is designed to take the skills the student already has in producing sculpture and enhance them. Students will continue to use clay, wood, metal and various mixed media in new projects (many of which are the students own ideas). The course will support all students in their creation of beautiful sculptures. Students wishing to concentrate in one area will work on independent study guidelines. Students intending to pursue post-secondary education in art or specifically sculpture will be given support in portfolio development which will include photo-documentation of their artwork. Students will be given the opportunity to participate in field trips, exhibitions in the school and community and produce a large-scale sculpture that will be left in the school collection.

## **Studio Art 12—3D (Ceramics & Sculpture)**

This course is designed to further support the skill and vision of senior sculpture students. Students will have the option to create their own projects through independent study projects; however, new ideas and techniques will still be taught and demonstrated. Students will have the opportunity to participate in field trips, exhibitions in the school and in the community and produce a major artwork that will be left in the school collection.





# Fine Arts - Visual Arts

## Media Arts 9

This is an introductory course into the graphic arts. If you are interested in learning more about photography, digitally drawing, altering photos, and creating videos; these topics will begin to be explored. We will focus on:

- Digital Photography
- Stop motion animation
- Drawing digitally
- Photoshop
- Graphic Design
- And more....

This course is a good starting point for students who wish to take photography, yearbook or further Media Arts classes in the future. **No experience necessary.**

## Media Arts 10 (Beginner)

In this course we will begin to explore photography, drawing digitally, video creation, and graphic design in more detail. Students will begin to create portfolios as we learn photoshop, DSLR photography techniques, illustrator, and video creation software. There is no experience or skills necessary to take this course but is recommended for students who wish to take Senior Media Arts and Yearbook courses.

*(If students have experience in Procreate that can be used in place of Photoshop unit).*

## Media Arts 11 (Intermediate)

In this intermediate course, students will further develop their graphic portfolio with:

- Digital drawing (Photoshop or Procreate)
- Studio photography techniques
- Illustrator or vector illustration
- Digital photography/black and white photography
- High quality video productions

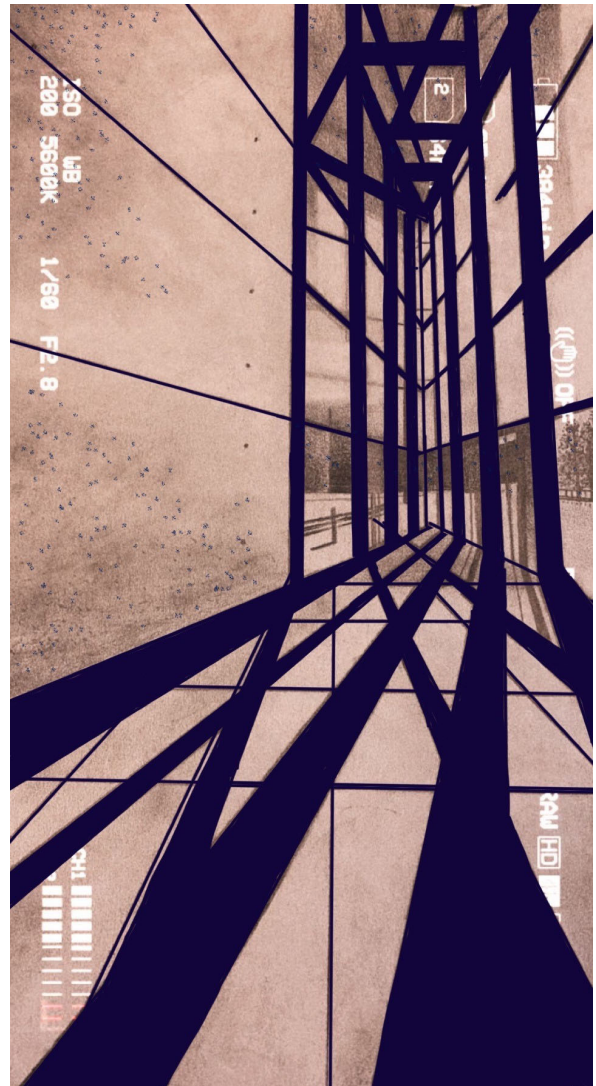
*It is recommended students have taken Media Arts 9, 10 or Photography 10 prior to taking Media Arts 11*

## Media Arts 12

Students will work individually, and self paced with teacher support to create a graphic portfolio in an area of interest while investigating possible post secondary areas of interest. This is a course for students who have experienced a broad variety of multimedia projects and who have an interest in deepening skills in a concentrated area of interest. Possible areas include:

- Digitally drawing (Photoshop or Procreate)
- Photography (Digital and darkroom)
- Illustrator (Vector illustration)
- Graphic Design
- Video Production

*Students who can not produce a portfolio individually within one of the above areas will follow the Intermediate Media Arts Curriculum. It is recommended students have taken a combination of Media Arts and Photography courses before taking Media Arts 12.*



# Fine Arts - Visual Arts

## **Photography 10 (Beginner)**

**This is an introductory course in the medium of photography**

Students will know, do and understand the following skills:

- Compose interesting photographs of all subject matter through different composition techniques
- Enhance digital photographs with Adobe Photoshop
- Take traditional black and white photographs with a variety of cameras
- Take digital photographs with a variety of cameras
- Develop and print black and white photographs (darkroom)
- Use effective lighting for portrait and product photography
- Display and present photographs effectively

***No pre-requisite is needed for this course***

## **Photography 11 (Intermediate)**

In this course students will know, do and understand the following skills:

- Enhance digital photographs with Adobe Photoshop
- Take black and white and digital photographs
- Develop and print black and white photographs
- Use different formats of film (35mm and 120)
- Compose interesting photographs of all Subject matter
- Use effective lighting for portrait and product photography
- Darkroom photography
- Display and present photographs effectively
- Start building an image portfolio of different styles of photography

***Media Arts 9, 10 or Photography 10 is recommended as a pre-requisite***

## **Photography 12 (Advanced)**

Students will have a chance to expand and explore their knowledge in the photographic medium and will be able to investigate post-secondary opportunities while creating a photography portfolio. Students who sign up for this class should be self-motivated and able to work independently or in small groups with the direction of the teacher. Possible topics to explore: Portrait photography, Nature photography, Street photography, Narrative photography, Documentary photography, Photo journalism, darkroom photography and Photo Manipulation. This course is for students who are very interested in photography only.

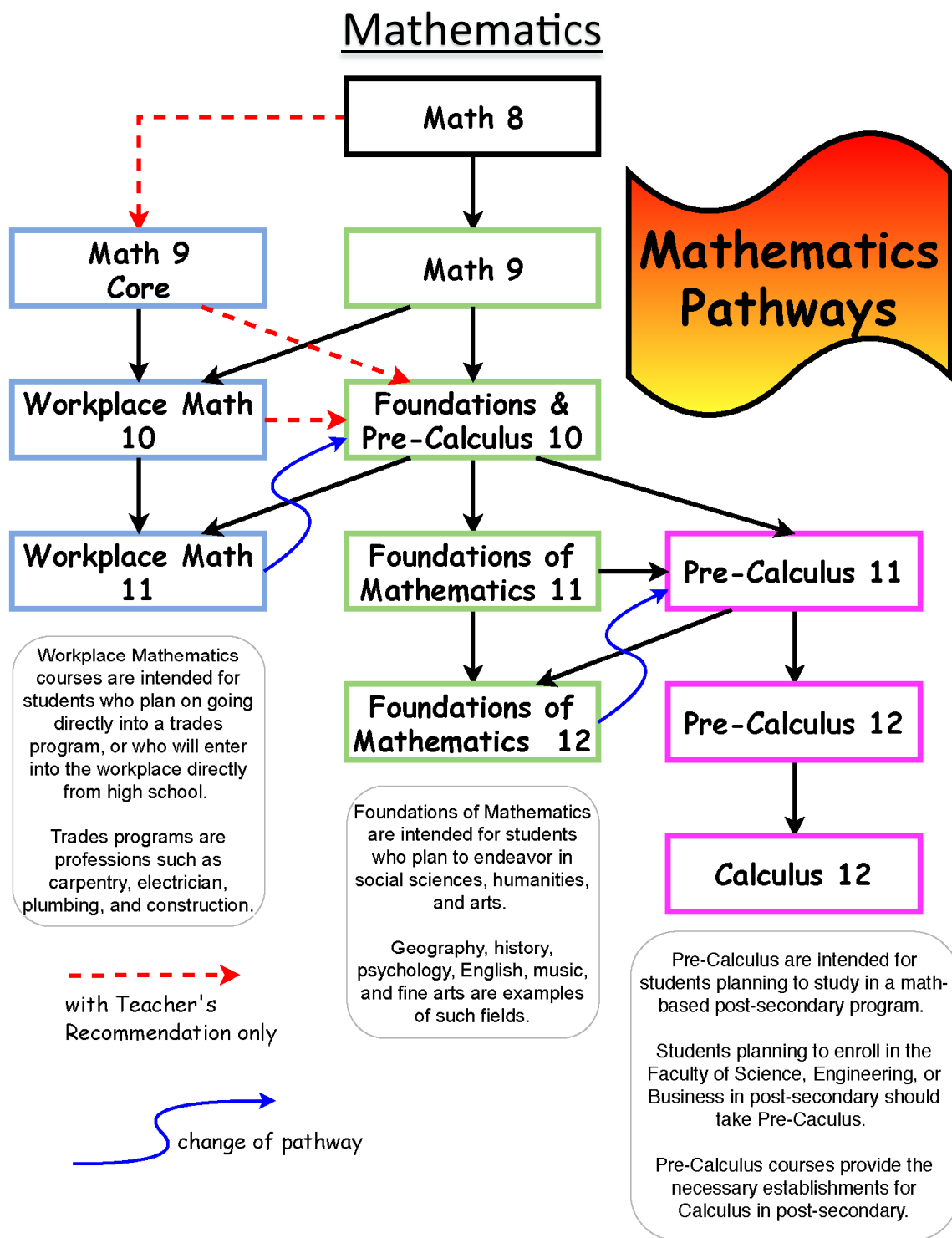
***Photography 11 is strongly recommended as a prerequisite.***

## **Yearbook 11/12**

WRITTEN APPLICATION REQUIRED TO TAKE THIS COURSE (*See your counsellor*)

Students participate in all aspects of the production and completion of the yearbook. Students learn to use desktop publishing tools such as InDesign and Photoshop. Design skills are taught in conjunction with computer skills as the students put together a 176-page book. Yearbook students also take the majority of the photos, and photo composition. Digital editing is part of this course. Students who work well with others and who would enjoy putting together a quality book, that will capture people's imagination, are encouraged to take this course. Students who choose to apply for specific leadership positions will meet the instructor to discuss applications.





The BC Mathematics curriculum aims to ensure that our citizens are numerate and embody mathematical habits of mind. The curriculum is designed to give all students the opportunity to learn skills to successfully locate, analyze and apply the information they need in their work and personal lives after they graduate.

- Reasoning and Analyzing
- Understanding and Solving
- Communicating and Representing
- Connecting and Reflecting

Students will be evaluated on how well they know the content as well as what they can demonstrate in all four areas of curricular competencies.

When concerns or questions arise regarding Math placements, it is advised that both parent(s) and student contact the Math teacher. In addition, please check with post-secondary institutions for admission requirements for specific programs.

# Mathematics

## **Mathematics Core 9**

Mathematics Core 9 will combine the foundational skills from Mathematics 8 and 9 to ensure that students have the essential academic skills to be successful in Workplace Mathematics 10 or Foundations of Math & Pre-Calculus 10. This course will have an emphasis on building basic arithmetic skills from grade 8 & 9. This course leads to Workplace Mathematics 10 or with teacher's recommendation, Foundations of Math & Pre-Calculus 10.

The topics include:

- mixed operations of decimals, fractions, and integers
- mixed operations with polynomials
- graphing two-variable linear relations
- multi-step one-variable linear equations

## **Mathematics 9**

Mathematics 9 is a continuum of the skills from the Mathematics 8 course. Students will continue to learn to communicate using spoken and written language to express mathematical ideas and develop visual representations to process information. Students will also solve problems by analysing and applying multiple math strategies, create connections amongst various mathematical ideas, and use reasoning and logic skills to make conclusions.

The topics include:

- mixed operations of decimals, fractions, and integers
- mixed operations with polynomials
- graphing two-variable linear relations
- multi-step one-variable linear equations, proportional reasoning
- probability and statistics, and spatial reasoning
- financial literacy

## **Foundations of Math & Pre-Calculus 10**

Foundations of Math & Pre-Calculus 10 is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs.

The topics include:

- operations on powers with integral exponents
- Prime factorization
- linear relations: slope and equations of lines
- arithmetic sequences
- solving systems of linear equations
- multiplication of polynomial expressions
- polynomial factoring
- primary trigonometric ratios
- financial literacy: gross and net pay

***Prerequisite: Mathematics 9 or good standing in Mathematics Core 9***

## **Workplace Mathematics 10**

The Workplace Mathematics pathway is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into many trade programs and for direct entry into the workplace.

**\*\* This course leads to Workplace Mathematics 11. \*\*** - This does not lead to Foundations of Math or Pre-Calculus courses.

Students will explore:

- create, interpret, and critique graphs
- primary trigonometric ratios
- metric and imperial measurement and conversions
- solving problems involving surface area and volume
- central tendency
- experimental probability
- financial literacy: gross and net pay

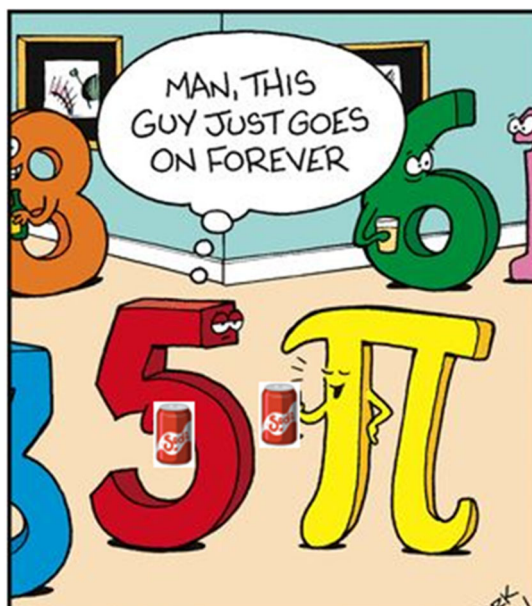
## **Workplace Mathematics 11**

Workplace Mathematics 11 satisfies the graduation requirement for a math course at the Grade 11 level. Content in this pathway was chosen to meet the needs of students intending to pursue careers in the trades and general workplace.

The topics include:

- financial literacy: personal investments, loans, and budgeting
- rate of change
- how probability and statistics are used in different contexts
- interpreting graphs in society
- 3D objects: angles, views, and scale diagrams

***Pre-requisite: Workplace Mathematics 10 or Foundations of Math & Pre-Calculus 10***





# Mathematics

## Foundations of Mathematics Courses

Foundations of Mathematics 11 and 12 are designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary studies in programs such as Economics, Languages, History, Humanities, and Communications; programs that **do not** require the study of theoretical calculus. Some programs in post-secondary may require Foundations of Math 12. Students must verify admission requirements for specific programs at post-secondary institutions.

## Foundations of Mathematics 11

The topics include:

- forms of mathematical reasoning
- angle relationships
- graphical analysis: linear inequalities, quadratic functions, systems of equations, and optimizations
- applications of statistics
- scale models
- financial literacy: compound interest, investments and loans

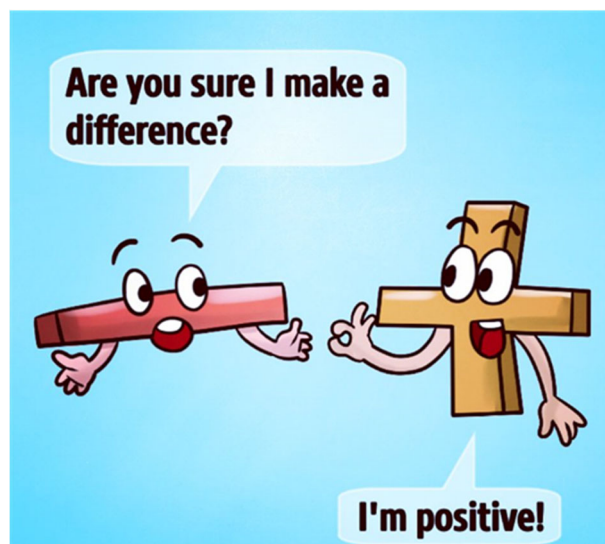
***Pre-requisite: Foundations of Math & Pre-Calculus 10***

## Foundations of Mathematics 12

The topics include:

- geometric explorations: constructions, conics, and fractals
- graphical representations of polynomial, logarithmic, exponential, and sinusoidal functions
- regression analysis
- combinatorics
- odds, probability, and expected value
- financial planning

***Pre-requisite: Foundations of Math 11 or Pre-Calculus 11***



## Pre-Calculus Courses

Pre-Calculus 11 and 12 are designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus, such as Math, Chemistry, Physics, Biology, Technology, or Engineering.

## Pre-Calculus 11

The topics include:

- real number system
- powers with rational exponents
- radical operations and equations
- polynomial factoring
- rational expressions and equations
- quadratic functions and equations
- linear and quadratic inequalities
- Trigonometry: non-right triangles and angles in standard position
- financial literacy: compound interest, investments, loans

***Pre-requisite: Good standing in Foundations & Pre-Calculus 10***

## Pre-Calculus 12

The topics include:

- transformations of functions and relations
- exponential functions and equations
- geometric sequences and series
- Logarithms: operations, functions, and equations
- polynomial functions and equations
- rational functions
- trigonometry: functions, equations, and identities

***Pre-requisite: Good standing in Pre-Calculus 11***

## Calculus 12

Calculus 12 is designed to prepare students for university mathematics. It is strongly recommended that students have a proficient/extending understanding of *Pre-Calculus 12* (or teacher recommendation) before attempting this course. This course serves as an excellent preparatory course for university math and is important for students planning to take the Math, Chemistry, Physics, Biology, Technology, or Engineering

The topics include:

- functions and graphs
- limits: left and right limits, limits to infinity, and continuity
- differentiation: rate of change, differentiation rules, higher order, implicit and applications
- integration: approximations, fundamental theorem of calculus, methods of integration, and applications

***Pre-requisite: Good standing in Pre-Calculus 12***

# Physical Education

## **Physical & Health Education 9**

Through participation in a variety of activities, students will develop a positive attitude towards active living in the pursuit of lifelong health and well-being. Activities will be selected from various movement categories, physical activities and fundamental movement patterns. Emphasis is placed on developing positive personal and social behaviors, interpersonal relationships, decision making and overall health and nutrition through a variety of sports and activities.

## **Physical & Health Education 10**

Through participation in a variety of activities and sports, students will develop a positive attitude towards active living in the pursuit of lifelong health and well-being. Activities will be selected from various movement categories, physical activities and fundamental movement patterns. Emphasis is placed on developing positive personal and social behaviors and interpersonal relationships. The demonstration of efficient and effective fundamental movement skills and concepts in the movement categories will be stressed. Students will also have the opportunity to become certified in St. John's Emergency First Aid.

## **Leadership 10**

The emphasis of the P.E. 10L program is to introduce leadership concepts and opportunities for junior students. Students will apply leadership skills related to physical activities in their school and will participate in a variety of lifetime activities in the school and community that will promote a healthy lifestyle.

PE 10 Leadership is offered at QE on a full year basis backed with Social Studies 10.

## **Get Fit 10**

This course is designed to further students' study of health information, goal setting, fitness training, fitness testing and the connection to the community.

Get Fit 10 is designed to provide students with opportunities, beyond Physical and Health Education 10, to achieve improved levels of health knowledge and intrinsic motivation to be more active. Get Fit 10 combines personal awareness of an individual's current level of health and fitness with an increase in the knowledge and skills to improve overall health. Students will be provided the opportunity to attain a greater understanding of health and the effects of lifestyle choices while in a safe environment to work towards personal goals for an improved level of physical fitness.

**This course is an additional elective and does not take the place of PE 10 as a graduation requirement.**

## **Get Fit 10 (Girls)**

This class is designated to further students' knowledge of health information, goal setting, fitness training and testing and lifelong wellness. Through participation in a variety of activities, this course is designed to enable ALL students to improve their personal level of fitness, develop lifelong fitness goals and knowledge, and maintain a personal fitness program with a focus on health and wellness.

**This course is an additional elective and does not take the place of PE 10 as a graduation requirement.**

**This class is for females students, students who identify as she / her and those who identify as non-binary.**

## **Girls Fit 11/12**

This class is designated to further students' knowledge of health information, goal setting, fitness training and testing and lifelong wellness. Through participation in a variety of activities, this course is designed to enable ALL students to improve their personal level of fitness, develop lifelong fitness goals and knowledge, and maintain a personal fitness program with a focus on health and wellness.

**This class is for females students, students who identify as she / her and those who identify as non-binary.**

## **Senior PE 11/12**

This course will enable students to explore and learn about the concept of recreation and will assist students in finding enjoyable activities and sports that can motivate them to participate more regularly in physical activity. Students will be able to employ tactics to increase their abilities and chances of success in a variety of physical activities and will be able to explain how their developing competencies can increase their confidence and significantly contribute to lifelong participation in physical activity. The grade 12 level will include leadership opportunities to teach elementary aged students as well.

## **Senior PE 11/12 (Girls)**

This class will run only if the numbers of registrants is adequate. In this course students will participate in a variety of recreational activities that will develop both teamwork and individual performance with a focus on the enjoyment of physical activity and less of a focus on the competitiveness of team sports. Such activities and field trips include: active health, aerobic fitness, yoga, volleyball, ball hockey, flag football, badminton, tennis, minor games, lacrosse, soccer, basketball, rugby, orienteering, rock climbing, bowling and laser tag. This course is open to both Grade 11 and 12 students.

**This class is for females students, students who identify as she / her and those who identify as non-binary.**



# Physical Education

## **Outdoor Ed. 11/12**

This course is designed for students who have an interest in outdoor activities such as hiking, biking, rock climbing, kayaking, and snow sports. This course will allow you to experience many different outdoor activities first hand, and provide you with the knowledge necessary to pursue these activities on your own. For this course you will need a flexible schedule because many of the trips will occur outside of class time, including weekends. Much of the gear will be provided by the school but the cost of the trips will be covered by the student.

## **Weight Training 11/12**

Students will participate in the many facets of strength training. Students will learn a variety of strength training techniques and how to use different types of equipment to achieve a high level of fitness. Students will also learn the principles of training, strength training, safety procedures, and the importance of nutrition. The physiology of strength training necessitates days of rest from resistance workouts; thus students will be expected to participate in other activities (cardiovascular) throughout the course.

## **Super Fit 11/12**

This course will allow students to explore the components of physical fitness and nutrition in conjunction with the principles of aerobic exercise and weight training. The format of the class is that students will alternate between a variety of training techniques such as cardiovascular fitness, muscular strength and endurance, flexibility, body composition and weight training. This course is excellent for students interested in a career in the fitness industry, physical education or personal training. You do not have to be an athlete to be successful in this course but you must be MOTIVATED.



# Physical Education

# Modern Languages

## **French 9**

Students will build upon skills learned and practiced in French 8 and continue to reap the rewards of learning one of Canada's official languages. Some of the benefits of learning French include being better prepared to compete for jobs in Canada, the ability to communicate abroad with numerous other French language speakers, and enjoying another culture. Learning how to recount stories in French and the past tense are added at this level. Students will further develop speaking, listening, reading, and writing skills. Come join us!

**Recommended prerequisite: Successful completion of French 8 or equivalent.**

## **French 10**

French 10 builds upon skills learned in both French 8 and French 9. For the duration of the course, students will be encouraged and able to communicate and converse in French spontaneously. Further study of French past and future tenses are added at this level. French 10 students will benefit from their continued study of the language. They will be better prepared for Canada's workforce, able to communicate while travelling abroad, and will be starting preparation for the prestigious DELF exam\*.

**Recommended Prerequisite: French 9**

## **French 11**

Students will interact with growing confidence in French while practicing speaking, listening, reading, and writing skills. French 11 has a focus on giving opinions and an advanced study of French culture. Opportunities for field trips, putting on Francophone events for the school, and being a French peer tutor may be available. Successful completion of French 11 provides the minimum language requirement needed for most universities. Students will continue to prepare for the DELF\* exam.

**Recommended Prerequisite: French 10**

**\*As this is not an Introductory course, students must have taken French 8 to 10 before enrolling in French 11**

## **French 12**

Finish your high school language program strong and impress current or future employers with the successful completion of French 12 and the DELF\* exam (A2 or B1 level). More complex facets of French language and culture will be introduced at this level. As in French 11, opportunities for field trips, putting on Francophone events for the school, and being a French peer tutor may be available. QE French teachers look forward to working with you in your final year of high school. We are so proud of our French 12 students!

**Recommended Prerequisite: French 11.**

\*This opportunity is available to all students enrolled in French 12 during the regular school year. Participation in the DELF exam is optional. DELF results are separate marks and are not counted in the French 12 course mark. DELF diplomas are recognized worldwide in Francophone countries and can be included in job application packages and university portfolio applications.



# Modern Languages

## **\*\*Spanish 9**

This is an introductory course of Spanish language and culture that uses the communicative approach. The course is designed for students who have not studied any Spanish before and requires active participation. Common structures of spoken and written Spanish as well as basic vocabulary are covered.

**Students enrol in Spanish 10 after the successful completion of Spanish 9.**

## **Spanish 10**

This course expands on the material covered in Spanish 9 with continued emphasis on the communicative approach. Students will develop a deeper understanding of Hispanic culture and will focus on speaking, reading, and writing the language.

**Recommended Prerequisite: Spanish 9**

Students enrol in Spanish 11 (not Spanish 11 Introductory) after the successful completion of Spanish 10.

## **\*\*Spanish 11 (Introductory)**

This course is the equivalent of Spanish 9. It is intended for students who have no background in the language. It uses a communicative approach to language acquisition and covers two years of regular program work in one year. This course is not likely accepted as a second language university requirement. A grade of C+ or higher qualifies a student to enrol in Spanish 11.

## **Spanish 11**

This course is accepted as a second language university requirement. Students continue to develop oral, listening, writing, and reading skills through a communicative approach to language acquisition and an appreciation of Hispanic culture.

**Recommended Prerequisite: Spanish 10 or a C+ or better in Spanish 11 Intro.**

Students enrol in Spanish 12 after the successful completion of Spanish 11.

## **Spanish 12**

This is an advanced course in the study of Spanish language and culture. Using a thematic approach, the understanding of literature, vocabulary, and grammar continue to be extended.

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**\*\*PLEASE NOTE**

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Introductory courses Spanish 9 and Spanish 11 (Introductory) are not intended for native speakers of the language. Students should choose a SENIOR level of the course or a DIFFERENT language with the approval of a counsellor and the Spanish teacher.

## **Punjabi 10**

This is an introductory level Punjabi course open to Grade 10 or 11 students who have never taken a Punjabi course before. This beginner's course is designed to introduce the students to Punjabi alphabets, basic grammar structures, vocabulary and oral skills. Punjabi culture is also explored with emphasis on history, festivals, religion and music. Students who intend to use Punjabi as their language requirement for graduation or university entrance must take Punjabi 11 after the completion of this course. Students may take Punjabi 10 and 11 in the same school year, if the schedule allows it.

**Recommended: If you already have prior Punjabi reading and writing skills, check with a Punjabi teacher before enrolling in this course.**

## **Punjabi 11**

This course is accepted as a second language university requirement. Students are expected to have a working fluency in reading, writing and speaking Punjabi. Students will build on their prior knowledge as they gain a deeper understanding into Punjabi culture.

**Recommended Prerequisite: Punjabi 10 or permission from a Punjabi teacher.**

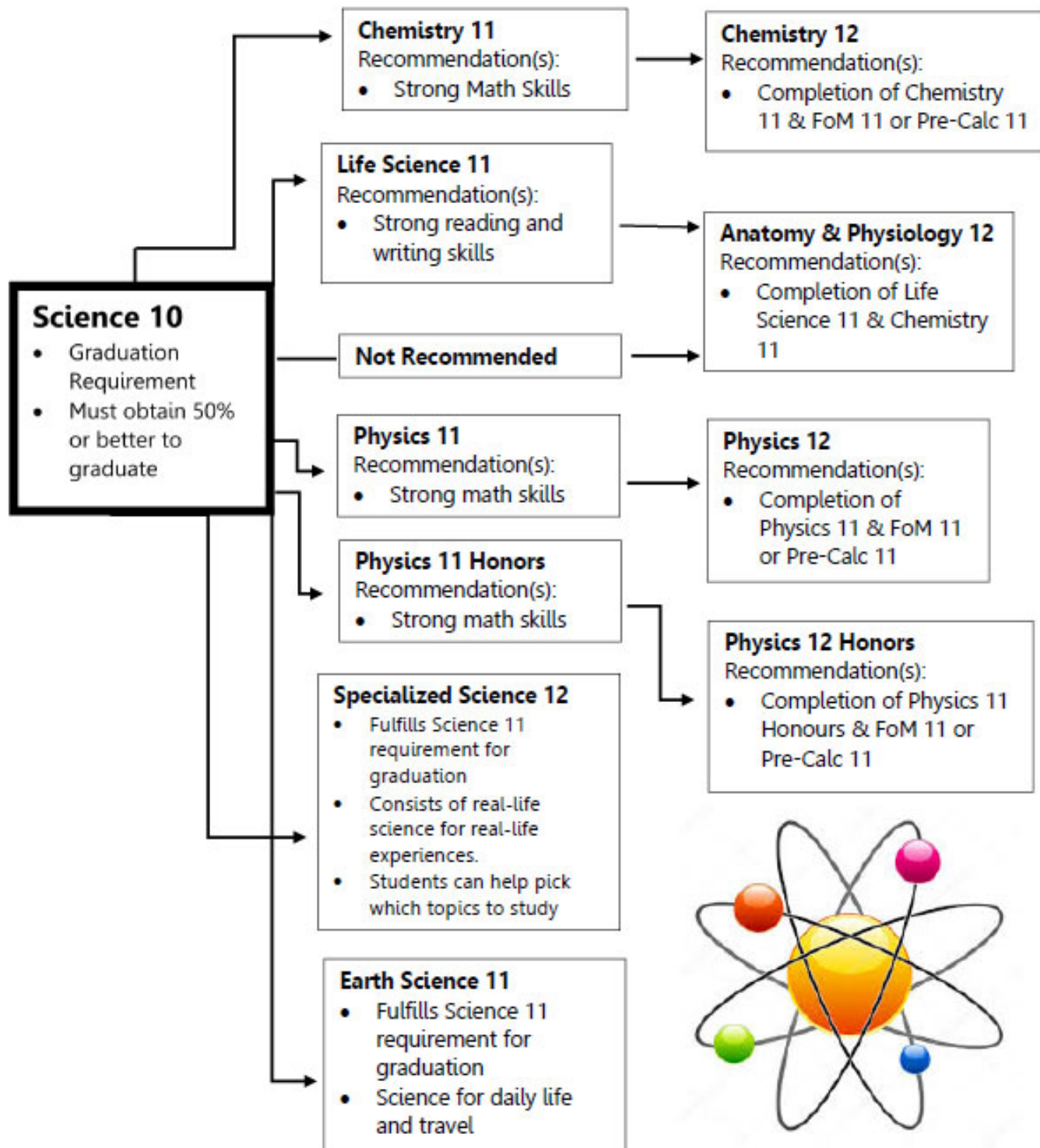
## **Punjabi 12**

This course builds on the skills of Punjabi 11. The focus is on literature and grammar with an emphasis on novels and short stories. Students are expected to demonstrate increasingly complex and spontaneous facility with the language as well as to produce creative works such as short stories, autobiographies, and poetry.

**Recommended Prerequisite: Punjabi 10 and 11 or permission from a Punjabi teacher.**



# Sciences





# Sciences

## Science 9

The key topics include: Cell Reproduction, Structure of the Atom & Periodic Table, Electricity and Flow of Matter & Energy in Ecosystems. While exploring these topics, students will have the opportunity to develop the skills, processes, attitudes, and scientific habits of mind that allow them to pursue their own inquiries. Students will also extend their understanding of the scientific method and skills through various activities and labs.

## Science 10

The BIG IDEAS include: Genetics: diversity of living organisms; Chemistry: rearranging of atoms; Astronomy, the universe explained; & the Environment: energy and living things. Some of the competencies include: creating questions with increasing complexity about the natural world; assess risks and address environmental issues; analyze patterns and trends using graphs, models and diagrams; critically analyze the validity of information in secondary sources and evaluate the approaches used to solve problems.

## Earth Science 11

A senior science graduation credit that aims to answer many of the questions, “why” as you move amongst your environment throughout your life. As opportunities arise local and current knowledge will be emphasized so students can connect and best understand their local surroundings. Students will study the earth as a system using a variety of lenses and equipment including a first people’s perspective and remote sensing. The following topics will be addressed:

- Geology – minerals and rocks, mining/resources, plate tectonics, earthquakes, volcanoes, weathering and land
- Erosion Meteorology – the atmosphere, air pressure, winds, air masses, weather fronts, weather forecasting and climate change Oceanography – properties of ocean water, the ocean floor, ocean currents and the hydrologic cycle.
- Astronomy – formation of the solar system, impacts of the Earth-moon-sun system and application of space technologies to study changes to Earth and its systems

Pairs with Geography 12 to offer a major field study each year to either Mt. St. Helens or Vancouver Island on alternating years. Students are encouraged to take each class in both of their senior high school years, and participate in these very unique field study opportunities.

## Specialized Science 12

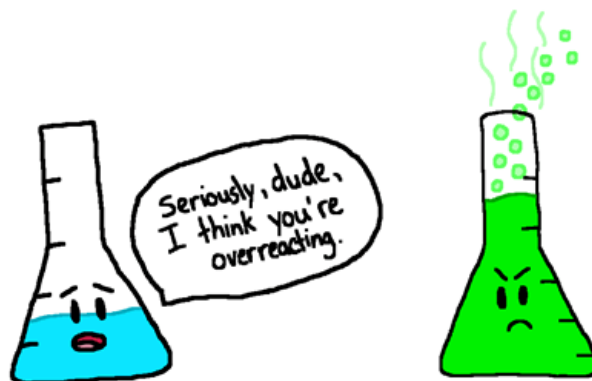
The knowledge of science opens the door to tomorrow. This course will introduce you to many different disciplines of science such as Environmental and Earth Science, Physics, Biology and Chemistry. What is different about this course is you will be learning about these subjects from an applied perspective. As an example, have you ever wondered how climate change effects our health or how Earth’s rock layers affect how we construct buildings today? This course consists of real-life science for real life experiences and you will help steer which topics you want to study.

## Life Science 11

This class explores the origin story of life. People living in harmony with the natural world understand the characteristics that all living things share. This course will help you identify what you share with the Red Cedar, the Bear and the Wolf. Understanding change in organisms over time within Indigenous Science will help you gain a greater understanding of the concepts involved in evolution. This class surveys how all life on the planet is organized using taxonomy which will help identify your place in the world today. ***Reading, vocabulary memorization and argumentative writing are a large part of the necessary work in this class.***

## Anatomy & Physiology 12

Concentrates on Cell Biology and role of DNA, Human Anatomy Organization, and Homeostatic control in the Human body. Students will be expected to continue to apply the curricular competencies of Communicating, Evaluating, Processing & Analyzing Data, and Applying & Innovating through several major experimental designs, investigations and dissection of a fetal pig. This course contains a great deal of information and students must have strong study habits in order to be successful in this course. For success, ***it is recommended that student completes BOTH Life Sciences 11 and Chemistry 11 (with a 67% or higher final mark) as a pre-requisite before taking this course.***



# Sciences

## Chemistry 11

Students will review and add to their understanding of the Chemistry covered in junior science courses. In addition, they will study new topics, such as the mole concept, chemical reactions, solution chemistry and organic chemistry. Students who choose this course need to be aware that the course involves a considerable amount of mathematics, and a working knowledge of simple algebra is essential. **A mark of 67% or higher in Science 10 and Math 10 is recommended as a pre-requisite.**

## Chemistry 12

Involves the study of: Reaction Kinetics, Equilibrium, Solubility of Ionic Substances, Acids, Bases and Salts and Oxidation/Reduction Reactions. These topics will involve the students in more advanced lab work, extensive use of mathematics, applications of science knowledge and critical thinking.

**Recommend that students achieve a minimum of 70% in Chemistry 11 before taking Chemistry 12 and excellent math skills is recommended as a pre-requisite.**

## Physics 11

An introductory course concentrating on mathematical skills that focuses on the principles and theories of physics, encourages investigation of physical relationships, and illustrates the relationship between theory and application. The following topics are investigated: Wave Motion and Geometric Optics; Kinematics; Dynamics; Energy; Special Relativity; Nuclear Fission and Fusion. This is also a project based course and students are encouraged to develop hands-on projects, where they show practical application of the theory studied.

**A mark of 67% or higher in Math 10 is recommended as a pre-requisite.**

## Physics 11 Honors

A course designed for those students who want a challenging program and would like to advance some of the topics covered in Physics 12. This course covers the Physics 11 program but at a faster pace and more in depth. The course is conducted using inquiry-based instructional strategies that focus in experimentation, hands-on projects and making observations about the physical world.

**Recommended: B or better in Science 10 and Pre-Calculus Math 10.**

## Physics 12

An advanced course for those who plan to continue studying science at a post-secondary institution. Physics 12 concentrates heavily on mathematical skills. This course will help students develop analytical, experimental and problem solving skills. The following topics will be studied: Vector Kinematics in Two Dimensions; Dynamics; Vector Dynamics; Work, Energy, and Power; Momentum; Equilibrium; Circular Motion; Gravitation; Electrostatics; Electric Circuits; Electromagnetism.

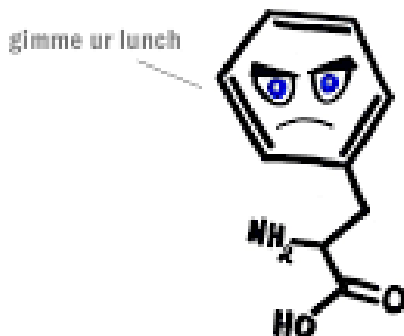
**Physics 11 is recommended as a pre-requisite.**

## Physics 12 Honors

This course continues what is studied in Physics 11 Honours, and offers advanced topics normally covered during first year university. There is a focus in developing research projects, and experiments at university level. If you like a challenging learning environment, and are interested in physics, engineering, computer science, or medical careers, this course is for you.

**Recommended: Physics 11 Honors with B or better.**

## WHAT DO YOU CALL AN ACID WITH AN ATTITUDE?



**A-mean-oh acid.**

# Social Studies

## Social Studies 9

Socials 9 is a course that focuses on several significant themes that are built upon the previously learnt Socials 8 Big Ideas. This course will investigate disparities in power both locally and globally, collective identity, and the how the physical environment influences social, political and economic systems. This course will look at several revolutions and study the causes and consequences of such large scale change. Some other topics of study are Canadian confederation, discriminatory policies in Canada, and the Indian Act. This course will continue to develop competency in historical thinking skills.

## Social Studies 10

Socials 10 is a course that looks at Canada's development in the twentieth century. This course is designed to be a critical thinking course that will study global and regional conflicts, including both world wars, and post war conflicts. This course will enable students with a better understanding of different political institutions and how these structures and ideologies shape Canada's economic and social institutions. Lastly, this course will look at historical and contemporary injustices and discuss how these have shaped the narrative of Canadian identity in the 20<sup>th</sup> century. This course will continue to develop the social studies competencies in historical thinking skills to be an active citizen. This is a prerequisite for senior level social studies electives.

## Explorations in Socials 12

In Explorations in Social Studies 12 you will build a strong foundation across many skill sets, engage in inquiry and community-based learning, and improve your critical thinking abilities. You will explore various perspectives of the past, present, and future of cultures and geography through the lenses of law, social justice, philosophy, geography, and economics. This course will allow you to enhance your understanding of our world and your place in it. ***This course is strongly recommended for students who need to work on foundational skills in Social Studies and literacy before moving on to a grade 12 Social Studies elective***



## 20th Century World History

20th Century World History is a course in which students will build upon the content, inquiry methods and historical thinking skills learned in Social Studies 9-10 to learn about the significant moments between 1919 and Present Day from an international affairs perspective. This is a perfect class for any student wishing to study in the Faculty of Arts at post-secondary as it will help students identify global trends and continue to develop academic writing skills. Topics include: the Paris Peace Conference, growth of totalitarian regimes, World War Two, the Cold War, fall of the Soviet Union, technological change, post-war nationalism and human rights.

## Comparative Religious Studies 12

Comparative Religious Studies is a course about people's beliefs, why they have them, and how they express them. This course looks at the philosophical and historical foundations for the development of religions. Some of the questions we will be exploring are: How can we justify any of our beliefs? Are secular principles a form of religion? What practices count as religion? We will examine the monotheistic religions of Judaism, Christianity and Islam. Then we will study monistic religions of Hinduism, Buddhism, Sikhism, and Taoism. We will then examine the commonalities among all religions. We will look at the differences among, and equally, within, the religions. Apart from the Big Six religions, we will also study smaller communities, First Peoples' religions and the beliefs of early humans. Are the reputations of these religions accurate or erroneous? Finally we will see how religions have informed the political, legal and economic systems of all societies. We will visit various local holy sites and do a project on an international holy site.

## Contemporary Indigenous Studies 12

This course begins with a thorough historical analysis based on the events from Christopher Columbus, through to the present circumstances in Canada and North America. The course will recognize the consequences and various actions taken throughout history, and their resulting implications in today's efforts towards truth, healing, and reconciliation. Current global movements will be examined to better understand the continued efforts towards rights and self-determination.

\*Fulfills Indigenous-Focussed Grad Requirement for 2024 onwards.

# Social Studies

## **Economic Theory 12**

Economics Theory is the study of how human groups take action on their needs and wants. The physical world provides resources for life, and societies build economies to try to acquire, make and distribute these resources. We will play a stock market fantasy game, and have a wealth disparity field trip downtown. This course examines economic theories from market to command systems. Such systems usually have a political justification and an economic reality. These differences will be the basis of an inquiry project on the history of one economic sector in one country. We will look at the principle of fairness related to wealth concentration, poverty, social stability and safety. Famous thinkers we meet are Plato, Smith, Ricardo, Marx, Keynes and Friedman. We will also survey pure competition, monopolies, and oligopolies. We will study the business concepts of scarcity, resources, supply & demand, elasticity, equilibrium, specialization, pricing, and distribution. Finally, we learn the history of simple traditional nomadic economics, through history to the rise of agricultural, industrial and electronic economies. This course will endeavour to prepare students for entry into a First Year Faculty of Arts program at a college or university level.

## **Genocide Studies 12**

Genocide Studies 12 is a course in which students learn about various cultural and physical genocides around the world to determine how genocide can be prevented in the future. There will be a focus upon the Holocaust, North and South American Genocides, the Holodomor, the Rwandan Genocide, the Killing Fields of Cambodia, the 1984 Sikh Genocide and other genocides in the twenty-first century. Some of the topics that will be covered include the causes/psychology of mass murder, responses to genocide, resistance, denial, and methods of remembering various genocides from around the world. This class will look into theories of community membership and prepare students to be social

advocates. This course is a perfect class for any student interested in a cross-curricular look at history as we bring in ideas from psychology, sociology, political science, economics, and literature to help better understand genocide. This course will endeavour to prepare students for entry into a First Year Faculty of Arts program at a college or university level.

## **Law Studies 12**

If you've ever wanted to know more about our legal system, the Law program will serve as your introduction. We study many aspects of Canadian law and incorporate current legal issues into the course to make this course as up-to-date and informative as possible. The main legal subjects covered include The Charter of Rights and Freedoms, the History and Structure of Law, Criminal Law (including the Youth Criminal Justice Act) and Civil Law. In addition to learning the content, students will be expected to think critically, analyze current events as they relate to the Criminal Code, and discuss controversial issues in small and large groups. This course will endeavour to prepare students for entry into a First Year Faculty of Arts program at a college or university level.

## **Physical Geography 12**

Students in this course will improve their understanding of weather and climate, plate tectonics, natural disasters, mapping, climate change and erosional landscapes. This course will provide opportunities through an overnight field trip, place based learning, inquiry, and research projects. Students will learn how landscapes are formed and the processes continuing to shape them. We will examine human and environment interactions, including how humans affect and are affected by the natural environment. This course will endeavour to prepare students for entry into a First Year Faculty of Arts program at a college or university level. This is a course for people interested in careers in environmental sciences, geology, aviation, forestry, conservation, oil and gas, parks or tourism.



# Social Studies

## Psychology 11

Psychology is the study of the human mind with particular emphasis on behaviour and mental processes. In this course you will learn about the basics of the discipline and explore its origins, major theories and perspectives, research methods and applications. Psychology provides a unique approach to understanding modern society. Some topics encountered during the semester will be: developmental psychology, the brain and behavior, sensation and perception, states of consciousness, theories of personality, and issues of mental health. Students will find this an engaging course with strong relevance to our world today. ***This course does not meet the Social Studies graduation requirements.***

## Psychology 12

Students who have successfully completed Psychology 11 may elect to continue their studies about human behaviour in Psychology 12. This course extends students' knowledge of human behaviour by encouraging the critical application of prior knowledge to a variety of issues and ideas. Topics covered in Psychology 12 include: Personality, Interpersonal Relationships, and a detailed examination of Mental Illnesses. Students will educate others about Schizophrenia, Depression, Bi-polar Disorder and Anxiety Disorders in this course.

***Psychology 11 is recommended as a pre-requisite. This course does not meet the Social Studies graduation requirements.***

## Social Justice 12

Social Justice 12 is a course which will use inquiry processes and skills to ask questions, gather, interpret, and analyze ideas, and then communicate findings and decisions. Beginning with a study of 4 Key Ethical Perspectives, reasoned ethical judgements about current and historical events will be made. This course will endeavour to prepare students for entry into a First Year Faculty of Arts program at a college or university level. A variety of terms and case studies will be examined throughout the course.

# Grade 8 Course Descriptions

## Humanities

Humanities 8 is a year-long course that combines English 8 and Social Studies 8. Through the year we combine the two courses and work on reading, writing and thinking skills to explore a wide variety of topics and themes.

## Mathematics

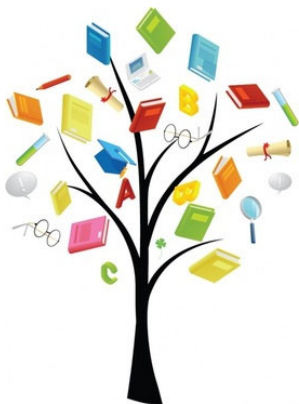
Students will learn to communicate using spoken and written language to express mathematical ideas and develop visual representations to process information. Students will also solve problems by analysing and applying multiple math strategies, create connections amongst various mathematical ideas, and use reasoning and logic skills to make conclusions. The topics include: Perfect squares & cubes, square & cube roots / Decimal, fractional percent / Operations with fractions / Two-step equations / Surface area and volume of solids / Probability and statistics, and spatial reasoning / Financial literacy

## Science

The key topics include: Biology (cells and immune system), Chemistry (matter, atomic theory, and KMT), Physics (waves and optics) and Earth Science (plate tectonics, volcanoes, earthquakes). While exploring these topics, students will have the opportunity to develop skills, processes, attitudes and scientific habits that allow them to better observe the world around them. Students will also broaden their scientific skills and their understanding of the scientific method through various activities and labs.

## Physical Education

Through participation in a variety of activities, students will develop a positive attitude towards active living in the pursuit of lifelong health and well-being. Activities will be selected from various movement categories, physical activities and fundamental movement patterns. Emphasis is placed on developing positive personal and social behaviors, interpersonal relationships, decision making and overall health and nutrition through a variety of sports and activities.



## Fine Arts

The Fine Arts Rotation is an introduction to the three major disciplines in the arts, open to Grade 8 students not enrolled in the Band 8 program. In each of the areas, Dance, Drama and Visual Art, Grade 8 students will be introduced to the foundation principles and learn to put these principles into practice through various projects. Each rotation is approximately 6 weeks long and each student will rotate through all three disciplines.

## ADST – Textiles and Foods

This course introduces students to design thinking through beginner food preparation and sewing projects. In addition, students will gain valuable skills in personal and social responsibility, and communication. Students will learn about kitchen safety, tools, and basic cooking skills with a goal of creating their own simple recipe. In textiles, students will learn sewing and hand stitching skills to design and make a small project.

## ADST - Technology

Technology 8 is an entry level course designed to teach students basic concepts of safety, tool identification and materials. In several weeks, you will have the chance to learn while completing a project to take home in one or more of the following classes: Woodwork, Electronics, Drafting/ Animation or Metalwork.

## French

Bienvenue à Français 8! In French 8, students will participate in simple conversations, read and write basic texts, and study Francophone culture. Field trips may include a trip to Fort Langley and participation in QE's very own Quebec winter carnival! We are excited to welcome you into our program as learning French is fun and provides you with post-secondary, career, and travel opportunities.



# Inter-A

Some Queen Elizabeth Secondary Students choose to be part of the Inter-A Program. This program is a place for high school students to receive an education that challenges them to Learn, Lead, and Engage.

Students in this program take all the required academic courses at each grade and also participate in electives in Leadership and Community Service. Inter-A courses are only open to students who are in the program fulltime. Students interested in the Inter-A program should visit the Inter-page on the QE website, and/or speak to their counsellor about applying for admission. Most students enter the program in grade 8 but late entry to the program is possible in some cases.

Open classrooms, cooperative learning, student leadership, and personal responsibility are some of our key values. Volunteer work, peer tutoring, diversity, and project-based learning are also very important to us.

## Courses:

**Grade 8:** Humanities, Science, French, Math, Physical and Health Education: PHE (all gender), Art Education, Student-Led Seminars and Community Volunteering, Career Education, Cooperative Learning, Applied Design, Skills, and Technologies: (ADST), and Field Trips including an over-night excursion.

**Grade 9:** Humanities, Science, French, Math, PHE (all gender), Art Education, Student-Led Seminars and Community Volunteering, Cooperative Learning, ADST, and Field Trips including an over-night excursion.

**Grade 10:** English Composition, Literary Studies, Science, French, Foundations of Math and Pre-calculus, PHE (all gender), Visual Art, Leadership, Career Life Education: CLE, Community Volunteering, Cooperative Learning, and Field Trips including an over-night excursion.

**Grade 11:** English Studies, Chemistry and/or Biology and/or Physics, French, Foundations of Math or Pre-calculus, PHE-Active Living (all gender), Art Studio, First Nations Studies, Leadership, Community Volunteering, Cooperative Learning, and Field Trips including an over-night excursion.

**Grade 12:** English Studies, Chemistry and/or Biology, History and/or Law and/or Social Justice, French, Math, PHE (all gender), Art Education, First Nations Studies, Leadership, Career Life Connections: CLC/Capstone, Community Volunteering, Cooperative Learning, and Field Trips including an over-night excursion.

