



Introduction

Welcome to Pre-Diploma Math 9. You will be using Microsoft Teams and Class Notebook that will serve as digital resources for our classroom. Our textbooks will be supplemented by a variety of sources. You will need the following for the course:

- 3 ring binder with lined and graph paper
- Duotang for concept list and quizzes
- Pencil(s), eraser(s), highlighter, ruler(s)
- Scientific Calculator
- An electronic device that can access digital resources
- Open-mind, enthusiasm/energy, positivity and growth mindset for learning!

IB Approaches to Learning

The IB Diploma Programme Approaches to Teaching and Learning are deliberate strategies, skills, and attitude that permeate the IB Teaching and Learning environment. The IB believes that a large influence on a student's education is not only what you learn by how you learn. Teaching students how to learn will improve the quality of teaching and learning across the entire IB spectrum of programmes. Pre-Diploma Math 9 integrates the IB Approaches to Learning with the development of core competencies from the BC Curriculum.

Approaches to Learning		BC - Core Competencies	
Communication	Communication Skills - Through interaction - Through language	Communication	Connect and engage with others Acquire (research), interpret and present Collaborate Explain, recount and reflect
Research	Information Literacy Skills Media Literacy Skills		
Social	Collaboration Skills		
Self-Management	Organization Skills Affective Skills - Manage your own state of mind Reflection Skills	Social Responsibility	Contributing to community/environment Problem solving Valuing diversity Building relationships
		Personal Awareness and Responsibility	Self-determination Self-regulation Well-being
		Positive Personal and Cultural Identity	Relationships and cultural contexts Personal strengths, abilities, values and choices
Thinking	Critical Thinking Skills Creative Thinking Skills Transfer - Skills and knowledge across different disciplines and subject groups	Creative Thinking	Novelty and value Generating ideas Developing ideas
		Critical Thinking	Analyze and critique Question and investigate Develop and design

Development of the IB Learner Profile

Through the course it is also expected that students will develop the attributes of the IB learner profile. These qualities include:

***Inquirers, Knowledgeable, Thinkers, Communicators, Principled,
Open-Minded, Caring, Risk-Takers, Balanced and Reflective***

Curricular Competencies

The curricular competencies are the skills, strategies, and processes that students develop over time. They reflect the "do" in the know-do-understand model of learning. While curricular competencies are more subject-specific, they are connected to the core competencies. Development of the curricular competencies will be embedded into daily lessons and student progress will be reported (through self evaluation and teacher evaluation). The curricular competencies that will be the focus in the course are:

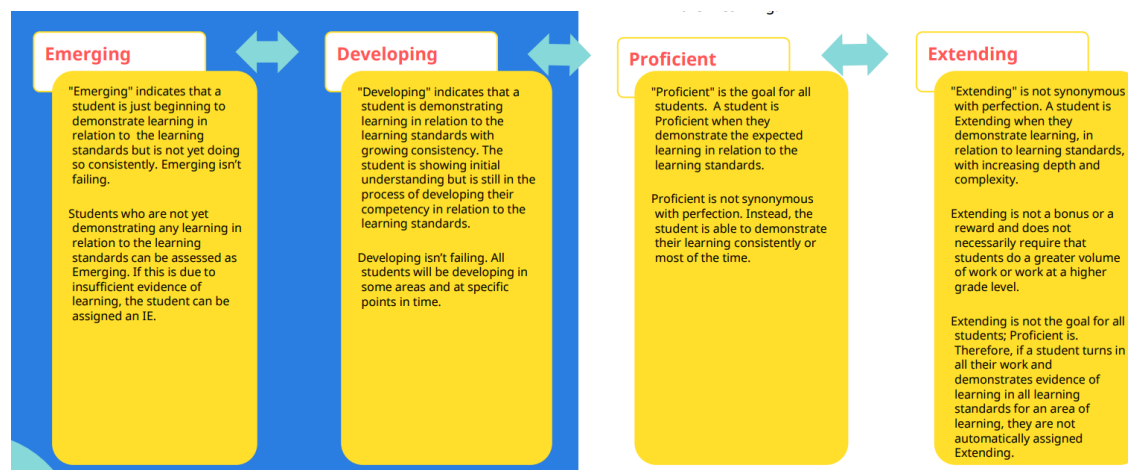
1. Use reasoning, logic and patterns to explore, analyze and apply mathematical ideas.
2. Estimate, demonstrate and apply mental math strategies.
3. Model Mathematics in contextualized experiences.
4. Apply multiple strategies to solve problems in both abstract and contextualized experiences.
5. Develop, demonstrate and apply mathematical understanding through inquiry, and problem solving.
6. Use mathematical vocabulary and language to contribute to mathematical discussions.
7. Explain and justify mathematical ideas, and communicate mathematical thinking in many ways.
8. Reflect on mathematical thinking.

More information about the competencies can be viewed at: <https://curriculum.gov.bc.ca/curriculum/Mathematics/9>

Content

Integers, Rational Numbers, Roots and Exponents, Algebra and Polynomials, Equations, Graphing, Inequalities, Quadratic Equations, Geometry, and Financial Literacy

Evaluation: Assessment of the student's skills will be an ongoing cycle throughout the course. Emphasis will be placed on skill development and growth. At Reporting time, the student and teacher will conference to discuss the current proficiency level for the report card. Student understanding, feedback and goal setting is a continuous cycle that will be regularly discussed. Percentages/letter grades are not assigned at the grade 9 level.



If there are significant gaps in student understanding, due to absences or incomplete work, the student's grade will be unable to be determined due to insufficient evidence, and an I-Report will be sent home. The report will include steps that must be taken to improve the student's grade and overall understanding of course concepts.

Classroom Expectations

- Be on time and be PRESENT – both physically (attend) and mentally (distractions away ie. phone)
- We are a TEAM – Lift each other up by showing respect to others in the class.
- Complete and check all your assigned homework each day following the homework template.
- Communicate regularly and honestly – Always ask for help when you need assistance. E-mail when absent. Practice qualities of a good teammate/partner.

Homework Expectations

- Students should be actively using the concept checklist to track their own learning in the course.
- There will be practice questions for each lesson. These practice questions are used to reinforce the concepts learned in class, and the successful completion of these questions (which includes checking answer keys and seeking help with challenging problems) will help to prepare students for assessments. If absent, it is the student's responsibility to ask a friend for notes or check the class OneNote to complete the assignment before the next class.
- Parents/guardians can support students by regularly monitoring work and achievements. 20-40 minutes should be set aside daily to complete practice problems and review previous concepts.
- A quick look through a student's notebook should inform a parent if the student is up to date on his/her assignments, and if daily notes are being taken.

Extra Help

The **Flex** block allows students to obtain extra assistance outside of class time. Flex is available to all students Tuesday-Friday (8:51-9:17) in room 108.

PMSS's IB Policies

For more information on PMSS's IB Policies, please follow the following link.

https://www.sd43.bc.ca/school/portmoody/ProgramsServices/IB/PMSS_IB_Policies/Pages/default.aspx#/=

Let's make it an awesome semester of math!

Please fill out the information below to acknowledge that you have read the course outline.

MY PARENT/GUARDIAN AND I HAVE REVIEWED THE REQUIREMENTS FOR THE COURSE.

Student Name: _____

Block: _____

Parent/Guardian Name(s):

Parent/Guardian Email(s):

Parent/Guardian Signature(s):

Comments: (What are you looking forward to? What are you concerned about?)

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