

Name:

Date:

Block:



Course Outline 2017/2018

Course: Math 8
 Teacher: Mrs. Chen
 Email: lchen@wvschools.ca

Block:	1-2	1-3	2-1	2-3
Room:	W201	W214	W201	W201
Google Classroom:	dpoulbc	wqq4whn	iytullb	c47k95

BRING the following to class everyday....

DO the following in class everyday....

- **Device & Binder**
- **Pencil Case:** Pens, pencils, ruler & calculator
- **Agenda:** Record homework in it every class
- **Date & organize** your notes
- Be **punctual** and ready to learn
- Use your **devices appropriately**

Workbook: Mathlinks 8 (McGraw-Hill) **\$10 in cash or cheque** (To: Rockridge Secondary School) by **September 15**

Welcome to Math 8!

In this course you will get the opportunity to expand your understanding of mathematical concepts and develop skills and attitudes for mathematical discovery and inquiry. Together, we will investigate mathematical questions while building on your sense of wonder and curiosity about the world. We hope to create an active and meaningful math program that honours the *International Baccalaureate* fundamental concepts of international mindedness, intercultural awareness, **communication**, and **holistic learning**.

Description of the Course:

Unit & Related Topics	Understanding Numbers: Integers, Fractions, Percentages, Rates, Ratios & Proportional Reasoning	Patterns & Relations: Linear Equations & Linear Relations	Spatial Sense: Pythagorean Relationships, Surface Area & Volume	Statistics & Probability: Probability & Data Analysis
Proposed Timeframe	Sept. 18/19 to Nov. 23/24	Nov. 27/28 to Jan. 18/19	Feb.5/6 to Apr 30/May1	May 7/8 to June 14/15
Key Concept	Logic	Relationships	Form	Relationships
Related Concepts	Quantity & Simplification	Representation & Models	Space & Measurement	Patterns & Change
Global Context	Identities & Relationships	Scientific & Technical Innovation	Orientation in Space & Time	Fairness & Development
Statement of Inquiry	Students will use logical mathematical processes to simplify & understand quantities in order to make informed financial decisions.	Students will discover mathematical relationships by representing & modelling various aspects of the world, allowing them to make predictions.	Students will understand that form and shape in space can enhance creativity while measuring all dimensions.	Students will learn to establish patterns & examine change in order to understand relationships .
Inquiry Questions	* How do I know if I'm getting a good deal? * Why is estimation useful? * How is math used in financial planning?	* How can math be used to predict the future? * If we can determine mathematical trends, how will that effect decisions?	* How does the space affect design? * Are we using resources wisely?	* How do we use statistics and probability to explain trends in society? * Are there different ways to interpret data based on a particular bias?

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Types of Assessment:

Formative Assessment	Summative Assessment
Checkpoints (Quizzes)	Projects
Exit slips	Tests
Activities	Lab Reports
Discussions	Mid-year & Final Exams
Homework	In-class Investigations

Criteria for Assessment:

(0)	Beginning (1-2)	Developing (3-4)	Accomplished (5-6)	Exemplary (7-8)
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Criterion A: Knowledge and Understanding

- **Select** appropriate mathematics when solving challenging problems in both familiar and unfamiliar situations
- **Apply** the selected mathematics successfully when solving these problems
- Generally **solve** these problems correctly

Criterion B: Investigating Patterns

- **Select** and apply mathematical problem-solving techniques to discover complex patterns
- **Describe** patterns as relationships and/or general rules consistent with correct findings
- **Verify** and **justify** these relationships and/or general rules

Criterion C: Communicating

- Consistently **use** appropriate mathematical language
- **Use** different forms of mathematical representation to consistently present information correctly
- Move effectively between different forms of mathematical representation
- **Communicate** through lines of reasoning that are complete and coherent
- Present work that is consistently **organized** using a logical structure

Criterion D: Applying Mathematics in Real-Life Contexts

- **Identify** the relevant elements of the authentic real-life situation
- **Select** appropriate mathematical strategies to model the authentic real-life situation
- **Apply** the selected mathematical strategies to reach a correct solution
- **Explain** the degree of accuracy of the solution
- **Explain** whether the solution makes sense in the context of the authentic real-life situation

Expectations:

* **If you are absent** on any given day then you are required to **keep up with the class** via the website and Google Classroom.

* **If you are absent** on the day that a **summative piece of assessment** is due, a valid note is needed and you will be allowed to complete the missed assessment upon the day that you return.

