Name: _____

# Olympiads School Tentative Math Grade 9 Course Outline

| Class NO. | Content | Date |
|---|---|---|
| Class 1 | Algebra | Tue, Sep 5 ~ Sun, Sep 10 |
| Class 2 | Equations | Tue, Sep 12 ~ Sun, Sep 17 |
| Class 3 | Geometry | Tue, Sep 19 ~ Sun, Sep 24 |
| Class 4 | Ratio, Proportion and Percent | Tue, Sep 26 ~ Sun, Oct 1 |
| Class 5 | Number Theory | Tue, Oct 3 ~ Sun, Oct 8 |
| Class 6 | Counting and Pattern | Tue, Oct 10 ~ Sun, Oct 15 |
| Class 7 | Statistics and Probability | Tue, Oct 17 ~ Sun, Oct 22 |
| **Class 8** | **Practice Test** | **Tue, Oct 24 ~ Sun, Oct 29** |
| Class 9 | Equations 1 | Tue, Oct 31 ~ Sun, Nov 5 |
| Class 10 | Equations 2 | Tue, Nov 7 ~ Sun, Nov 12 |
| Class 11 | Number Theory | Tue, Nov 14 ~ Sun, Nov 19 |
| | **Canadian Intermediate Mathematics Contests (CIMC)** | **Wed, Nov 22, 2017** |
| Class 12 | Geometry 1 | Tue, Nov 21 ~ Sun, Nov 26 |
| Class 13 | Geometry 2 | Tue, Nov 28 ~ Sun, Dec 3 |
| Class 14 | Geometry 3 | Tue, Dec 5 ~ Sun, Dec 10 |
| Class 15 | Linear Functions | Tue, Dec 12 ~ Sun, Dec 17 |
| Class 16 | Ratio and Fraction | Tue, Dec 19 ~ Sun, Dec 24 |
| | **HOLIDAY** | **Mon, Dec 25 ~ Sun, Jan 7** |
| ***Note: Winter Semester starts from Class 17. If you would like to continue, please register with the front desk.*** | | |
| | **AMC 10 A** | **Wed, Feb 7, 2018** |
| | **AMC 10 B** | **Thurs, Feb 15, 2018** |
| | **Pascal Contest** | **Tue, Feb 27, 2018** |
| | **Fryer Contest** | **Thurs, Apr 12, 2018** |
| | **Mathematica – Newton** | **TBA** |

**HOMEWORK**

- There is homework after each class.
- The homework is posted on Olympiads School website: http://www.olympiads.ca/
- Students need to print out the homework after each class and finish it by the next class.
- The homework is marked with “P” for pass and “I” for incomplete.

**CONTEST** All of the grade 9 & 10 math courses for the upcoming semester will be based on contest materials, which include the following contests:

**1. AMC 10 (American Mathematics Competition)**

Name: _____

This contest is an annual national math contest for all levels of grade 9 and 10 students (grades 9 and 10 students share one contest), and is hosted by Mathematical Association of America. The contest is held every year in February. AMC 10 has **25 multiple choice questions** with a **total score of 150** and must be completed within **75 minutes**. Students who **scored 120 or higher** will be invited to write the American Invitation of Mathematics Examination (AIME).

**2. Mathematica Series Contest**

This contest is a national contest series hosted by Mathematica Contest Centre in Pierrefonds, Quebec, and is held every year in April. This contest series consist of seven different contests. They are: Thales (grade 3), Byron - Germain (grade 4), Fibonacci (grade 5), Pythagoras (grade 6), Euler (grade 7), Lagrange (grade 8), and **Newton (grade 9)**. The Newton contest is 75 minutes long.

**3. Waterloo Mathematics Contest Series**

The Waterloo mathematics contest series is for all students from grade 7 to 12. It is also called Canadian Mathematics Competitions. It is hosted by University of Waterloo, hence called Waterloo contest series. From grades 9-12, there are three types of Waterloo math contests:

**1) Canadian Intermediate and Senior Mathematics Contests (CIMC and CSMC)**

The **CIMC** is for grades 9 and 10 students and is held every year in November. The format of the contest is as follows:

- 9 questions; 6 are answer only and 3 are full solution
- marks for full solution questions assigned for form and style of presentation
- 2 hours
- 60 total marks
- non-programmable calculators permitted provided they are without graphical displays

**2) Waterloo Contest Series 1 -** This contest series has different names for each of the different contest: Gauss (grade 7 and 8), **Pascal (grade 9),** Caley (grade 10), Fermat (grade 11). The format of the contest is as follows:

- 25 multiple-choice questions
- 60 minutes
- 150 total marks
- any calculator is permitted

**3) Waterloo Contest Series 2**

Since 2003, University of Waterloo also hosted another contest series for grade 9-11 students every year in April. They are called **Fryer (grade 9),** Galois (grade 10), and Hypatia (grade 11). The format of the contest is as follows:

- 4 full solution questions
- 75 minutes
- 40 total marks
- most calculator is permitted