

Dear parents of the Math 6c class,

My name is Niraj Aryal, and I am pleased to welcome you to this new school year at SchoolNova. I hope you had a great summer and are ready to start learning math again.

Parents are welcome to join the class, but please be quiet and avoid using your phones during class. Take a seat towards the back.

Homework: Homework is assigned weekly and is very important and not optional. Try your best to solve all the problems. It's okay if you can't complete them all; an incomplete solution is better than nothing.

Parents, please encourage your child to do their homework independently and without using any help from the internet (or AI), but if they get stuck, you can help them.

Write homework neatly with enough detail for us to understand your process. You can use math notations; a few words are fine. Do not write submit your homework on the homework assignment page.

I will try my best to upload pdf file containing homework and a brief review of the concepts and formulas covered in the class by Monday evening. This should give both parents and students enough time to complete homework.

Supplies: Your child will need quadrille paper (for submitting homework), a folder, and a pencil case with essentials like pencils and erasers. You're free to organize in your preferred way, but at a minimum, bring paper, a pencil, and your completed homework if assigned.

What we will cover: We will start with math review and cover various topics which are mentioned below (not in exact order). The number of weeks spent on each topic is tentative. We will also have few math battles, quizzes and occasional reviews.

Please don't hesitate to email me at aryal@schoolnova.org about anything related to the course.

Syllabus

- **Algebra:** Algebraic Identities and simplification, Factorization, some quadratic equations etc. (3-4 weeks)
- **Arithmetic and Geometric sequence:** Basic problems including sums of finite and infinite series. (2 weeks)
- **Combinatorics and basic probability:** permutation, number of choices when order matters and does not matter, coin tossing problems etc. (3 weeks)
- **Set theory and logic:** Truth table, logic gates and related problems (3 weeks)
- **Geometry:**
 - Coordinate geometry: Distance formula, Equation of line and circle etc (2 weeks)
 - Euclidean geometry: Basic theorems and axioms of lines and triangles (2 weeks)
 - Ruler-Compass construction (2 weeks)