

## **Class Letter: School Nova, Math 6b/c, Aneta Iordanova**

Welcome to your Math 6 class at School Nova - I hope that you are as excited as I am to start another year of learning the beauty of maths! For many of you who already know me, one of my main aims is to encourage class participation; this is not only an opportunity for me to gauge how everyone is progressing but also it is an opportunity for you to share ideas, make friends, and enjoy being in this class. My philosophy of teaching is to try to instill strategies for solving problems and not just applying formulas.

If you have any questions, I will be glad to answer them after the class, or you can always email me at [iordanova.aneta@gmail.com](mailto:iordanova.aneta@gmail.com)

### ***Class guidelines:***

Be respectful, participate, try your best. If you miss a class – check the class notes and the homework posted on the School Nova web page.

Parents are always welcome in class. Please, take a seat at the back.

### ***Supplies:***

Bring a folder, a notebook, and a pencil or a pen. I will also recommend that you use quadrille paper, especially for graphs, but you can use any other paper for writing notes.

### ***Homework:***

Homework will be assigned every week; it complements our class work and provides a feedback of students' progress. Homework is not optional.

Please, work on all problems. Keep in mind that some problems may be more difficult than others. If you cannot solve a problem, you may wish to try again later. If you still cannot solve it, please do not worry and just submit your best attempt. Do not write your answers on the homework assignment printout page; write *neatly* on separate paper, show ***all your work***, staple the pages together, and do not forget to add your name on the top of the first page.

Parents, you are welcome to help, if you wish, but please try to provide only hints and let your children work more independently.

### ***Grades:***

There will be no grades for this class although I will give feedback on the homework!

The main topics which we will cover this year are (not in order):

- Basic logic (knights and knaves, logic operations)
- Set theory basics (basic operations and Venn diagrams)
- Linear equations continued. Simple inequalities.
- More powers:  $a^n a^m = a^{n+m}$ . Multiplication and division by powers of 10.
- Square roots. Rational and irrational numbers
- Arithmetic and Geometric Progressions
- Probability. Basic combinatorics: permutations
- Similarity; relation with areas and volumes
- Constructions with ruler and compass
- Coordinate plane and graphs of simple functions