7th Grade, Pre-Algebra (Academic)

Mr. Netkovick– Room 212

The details of math in seventh grade:

* Students work individually, in partnerships, and in groups
* Students develop problem-solving strategies, solve problems, practice algorithms, and communicate the process they use to complete various mathematical challenges.

Sequence of Topics:

|  |  |
| --- | --- |
| **Unit 1** | **Algebraic Reasoning**Introduction to variables, tables, graphs, and equations |
| **Unit 2** | **Rigid and Non-Rigid Transformations**Focus on congruent and similar figures. |
| **Unit 3** | **Ratios, Rates, Percents, and Proportions**Using ratios, rates, percents, and proportions for solve real-world problems.. |
| **Unit 4** | **Operations with Rational Numbers**Focus on positive and negative rational numbers. |
| **Unit 5** | **Two- and Three-Dimensional Geometry**Area/perimeter of circles, exactness of Pi, cross sections, nets, surface area, volume |
| **Unit 6** | **Triangles and Angle Relationships**Construction of triangles from angles or sides. |
| **Unit 7** | **One-Variable Linear Relationships**Recognition of linear relationships and solving one variable linear equations |
| **Unit 8** | **Inferences about Population**Data sampling and comparative inferences. |
| **Unit 9** | **Probability**Simple and compound probabilities. |

**Materials Needed for Class:**

* Pencils/erasers
* A 1½ inch three ring binder to be used only for math (with dividers)
* A supply of loose-leaf paper
* Calculator (TI-30 is recommended)
* A positive attitude

**In the event of absence:**

Students are required to make up any missing assignments and/or tests in accordance with Avon Middle School policy.

**Extra Help**

Extra help is available during flex period or after school (by appointment only).

**Questions, Comments, Concerns**

* Visit my website
* Send me an email: mnetkovick@avon.k12.ct.us
* See me!

**Grading**

The final grade will be calculated based upon the following:

10% Homework

10% Math binder

10% Math Review Grade (based on bi-weekly quizzes)

20% Quizzes and projects

50% Tests

 **Homework**

* Given almost daily and always reviewed in some manner by the teacher.
* Assignment is usually posted on my web page by 4:00 p.m.
* Must be completed in the proper format
	+ Name, date, and page number(s) written in top, right-hand corner
	+ Homework should be completed in pencil and all work must be shown!
* If a student works on homework diligently for 45 minutes and is not finished, parents may initial the completed work and homework will receive a grade of Satisfactory.
* Grading Rubric for homework:
	+ Satisfactory (**S**) on-time assignments earn 100%
	+ Late but satisfactory (**LS**) assignments earn 80%
	+ Unsatisfactory (**U**) or missing assignments earn 0%

**Math Binder**

Students are required to maintain a binder with 5 sections. It will be collected and scored at the end of every unit. See separate handout for further information.

**Tests & Quizzes**

Tests and quizzes will always be announced and at least two days notice will be given to provide time to prepare. To prepare for quizzes, review old homework and unit journal entries. To prepare for tests you will be given a practice test that includes the answers to the problems.

**Moving from the Academic level in 7th Grade to the Honors level in 8th Grade**

This is the criteria that the 7th grade math department will be using to recommend a student move from academic math to honors math in grade 8.

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| --- | --- | --- | --- | --- | --- |
| Date | Type | Student Score | Level of Performance | Weighted Points | Student Points |
| 5/1 | Spring Placement Test |  | $$\geq 80$$ | **25** |  |
| 5/20 | Unit #7 Test (Linear) |  | $$\geq 90$$ | **25** |  |
| 5/30 | Unit Test Average |  | $$\geq 90$$ | **20** |  |
| 5/30 | DMR/DGR Average |  | $$\geq 95$$ | **10** |  |
| 10/1 or 5/1 | DRP (Best) |  | $$\geq 55$$ | **10** |  |
| 10/1 | 6th Grade SBAC |  | $\geq $**3** | **10** |  |
| Total  |  |  |  | **80 or greater needed for placement** |  |

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_