



BARNEGAT TOWNSHIP SCHOOL DISTRICT

Russell O. Brackman Middle School 8th Grade Syllabus

Course Information

Pre-Algebra, 8th Grade Mathematics
Full Year
Class Location: Room # S229

Teacher Information

Name(s): Dana Scholl
Phone: 609-698-5880
Email: dscholl@barnegatschools.com

Course Description:

In Grade 8, instructional time should focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Course Competencies/ Learning Objectives

Students who successfully complete name of course will be competent in the following areas:

- Students will be able to Approximate Real Numbers; Perform Real Number Operations
- Students will be able to Use Radicals and Integer Exponents; connect proportional relationships and lines; solve systems of linear equations
- Students will be able to define, evaluate and compare functions; model relationships
- Students will be able to understand congruence and similarity; apply the Pythagorean theorem; apply volume formulas
- Students will be able to analyze bivariate data

Course Texts / Online Resources

i-Ready, Google Classroom, LinkIt!

Required Materials

Pencils, erasers, 3-ring binder, 3 binder dividers, loose leaf paper, planner

Attendance Policy

Regular and prompt class attendance is an essential part of the educational experience. The Barnegat Township School District expects students to be responsible and exercise good judgment regarding attendance and absences. Students accept full responsibility for ensuring that they complete any/all work missed due to absences.

Course Topic Outline

Please find a list of the units for this course:

| Content Area: Mathematics | |
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| Course Title: Pre-Algebra | Grade Level: 8 |
| Unit 1: Geometric Figures: Rigid Transformation and Congruence | 18 Days |
| Unit 2: Geometric Figures | 16 Days |
| Unit 3: Linear Relationships: Slope, Linear Equations, and Systems | 37 Days |
| Unit 4: Functions | 24 Days |
| Unit 5: Integer Exponents | 19 Days |
| Unit 6: Real Numbers: Rational Numbers, Irrational Numbers, & the Pythagorean Theorem | 31 Days |
| Unit 7: Statistics | 20 Days |

Student Grades

Each marking period, students will have a minimum of three (3) Major Assessments and seven (7) Minor Assessments (explained below). Course Participation is assessed twice (2x) per marking period using the district rubric. Benchmark assessments will be recorded in Genesis for marking periods 1, 2 and 3.

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| Major Assessments | - | 50% of marking period grade |
| Minor Assessments | - | 30% of marking period grade |
| Class Participation | - | 20% of marking period grade |

- Examples of Major Assessments include items that are summative in nature, such as: tests, projects, formal presentations, or any other type of assessment used to capture evidence of learning at the culmination of a unit of study.
- Examples of Minor Assessments include items that are formative in nature, such as: quizzes, exit tickets, in class worksheets, or any other type of assessment that is diagnostic in nature and used to guide instruction and provide ongoing feedback to students.
- Note: grades for individual assignments are entered into Genesis for the marking period in which the assignment is collected, and not a subsequent marking period.
- Extra Credit will only be available for assignments that have been approved ahead of time by the teacher and department supervisor.
- In this course, it is expected that students will submit only their best work, and teachers reserve the right not to accept work that is substantially below what a student is capable of producing.
- *Please speak to your teacher about the opportunity for earned Second Chances on certain Major Assessments.*

Course Participation Rubric

| | Academic Social Skills | Readiness to Learn / Study Skills | Class Discussions | Classwork | 21st Century College and Career Readiness |
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| | <p>20 points</p> <ul style="list-style-type: none"> • Takes initiative in completing tasks in the online classroom. • Communicates needs to the teacher in an appropriate manner. • A role model for others in the online classroom. • Appropriately seeks support and/or assistance from the teacher. | <p>20 points</p> <ul style="list-style-type: none"> • Produces notes and other materials that demonstrate effort and insight. • Is motivated and takes ownership of his/her learning. • Takes steps to better himself/herself through Google Meets, emailing, etc. | <p>20 points</p> <ul style="list-style-type: none"> • Consistently completes the assigned discussion questions and rarely misses a question, if at all. • Responses consistently reflect high levels of care and pride in work. • Replies and interacts with peers in a meaningful manner. | <p>20 points</p> <ul style="list-style-type: none"> • Consistently completes assigned tasks in a timely manner. • Actively participates in classroom activities on a daily basis. • Contributes to class discussions in a meaningful way (asking questions or adding to class discussion). | <p>20 points Student <u>consistently</u> shows the following:</p> <ul style="list-style-type: none"> • Responsible and contributes to our online community. • Clearly and appropriately communicates with the teacher via email. • Understands the consequences of actions. • Responsibly uses technology. |
| | <p>15 Points</p> <ul style="list-style-type: none"> • Completes tasks in the online classroom. • Sometimes communicates needs to the teacher. • Frequently on-task, but may need some redirection from the teacher. | <p>15 Points</p> <ul style="list-style-type: none"> • Often produces notes and other materials that demonstrate effort, but may also require direction. • Is mostly motivated and takes ownership of his/her learning. • Often takes steps to better himself/herself through Google Meets, emailing, etc. | <p>15 Points</p> <ul style="list-style-type: none"> • Frequently completes the assigned discussion questions, but may have missed a few. • Responses sometimes reflect high levels of care and pride in work, but not always. • Replies and interacts with peers. | <p>15 Points</p> <ul style="list-style-type: none"> • Usually completes assigned classwork tasks. • Frequently participates in classroom activities but sometimes requires re-direction. • Usually contributes by responding, and/or asking questions. | <p>15 Points Student <u>frequently</u> demonstrates the following:</p> <ul style="list-style-type: none"> • Responsible and contributes to our online community. • Clearly and appropriately communicates with the teacher via email. • Understands the consequences of actions. • Responsibly uses technology. |

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| <p>10 Points</p> <ul style="list-style-type: none"> • Rarely completes tasks in the online classroom. • Does not communicate needs to the teacher. • Frequently needs re-direction from the teacher. | <p>10 Points</p> <ul style="list-style-type: none"> • Produces notes and other materials that lack effort to learn. • Unmotivated and does not take ownership of his/her learning. • Does not take appropriate steps to better himself/herself. | <p>10 Points</p> <ul style="list-style-type: none"> • Rarely completes the assigned discussion questions. • Responses do not reflect care and pride in work. • Little to no replies and interactions with peers. | <p>10 Points</p> <ul style="list-style-type: none"> • Rarely completes assigned tasks and does not produce his/her best work. • Usually does not participate in classroom activities and often requires teacher re-direction • Usually does not contribute by responding and/or asking questions. | <p>10 Points Student <u>rarely</u> demonstrates the following:</p> <ul style="list-style-type: none"> • Responsible and contributes to our online community. • Clearly and appropriately communicates with the teacher via email. • Understands the consequences of actions. • Responsibly uses technology. |
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Plagiarism, Cheating, and Academic Integrity

The Barnegat Township School District places a strong emphasis on students’ integrity, and the district will not tolerate instances of academic dishonesty. Plagiarism is the practice of copying words, sentences, images, or ideas for use in written or oral assessments without giving proper credit to the source. Cheating is defined as the giving or receiving of illegal help on anything that has been determined by the teacher to be an individual effort. Both are considered serious offenses and are subject to consequences described in the Student Handbook and Board Policy #5701.

Classroom Expectations

1. All school rules and policies apply to this class.
2. The teacher and students will work together for a respectful, safe classroom.
3. Students will come to class on time, prepared, and ready to learn.
4. Students will complete all assignments, including homework, by all deadlines. Make-up work is only accepted after an excused absence. It is your responsibility to see me for your work before or after school.
5. Students will actively participation in class discussions and other activities in order to enhance their learning experiences.
6. Cell phones, iPods, or any other personal electronic devices are prohibited in class at any time.

Extra Help and Support

Occasionally, students will require additional help to master the content and skills in this course. If you need additional help, there are a variety of options for you, including:

- Before/after school help sessions with your teacher
- Peer tutoring from NHS / NJHS students
- Free online tutoring with Brainfuse (available from the Barnegat Library website)

As your teacher, I am committed to your success. If you need help, please ask!

I have read and understand the syllabus for 8th Grade Mathematics.

Student Signature

Print Name

Parent/Guardian Signature

Print Name