

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Welcome to 9th Grade Math (Geometry)

2021-2022 School Year

ISI VISION

To be the Islamic school of choice in North Texas weaving academic excellence with highest morals and ethics.

MISSION

To provide our children an environment which will enable them to achieve their highest potential, founded on Islamic morals, scholastic excellence, and good citizenship.

Dear 9th grade Parents and students,

Assalam O Alaikum.

Welcome to a new year at Islamic School of Irving. My name is Tehmina Bilal and I am pleased and honored to be your child's 9th Grade Math teacher. This is my 11th year at ISI (I love being a part of this school!). I finished my Masters in Public administration and have a teacher certification in Math. As always, I am truly looking forward to working with and getting to know each one of my students and their families .

Let's look at what we will be learning this year

Curriculum:

- Derive and use the distance, slope, and midpoint formulas to verify geometric relationships, including congruence of segments and parallelism or perpendicularity of pairs of lines
- Determine an equation of a line parallel or perpendicular to a given line that passes through a given point
- Determine the image or pre-image of a given two-dimensional figure under a composition of rigid transformations, a composition of non-rigid transformations, and a composition of both, including dilations where the center can be any point in the plane
- Verify that a conjecture is false using a counterexample
- Investigate patterns to make conjectures about geometric relationships, including angles formed by parallel lines cut by a transversal, criteria required for triangle congruence, special segments of triangles, diagonals of quadrilaterals, interior and exterior angles of polygons, and special segments and angles of circles choosing from a variety of tools
- Verify theorems about angles formed by the intersection of lines and line segments, including vertical angles, and angles formed by parallel lines cut by a transversal and prove equidistance between the endpoints of a segment and points on its perpendicular bisector and apply these relationships to solve problems
- Prove two triangles are congruent by applying the Side-Angle-Side, Angle-Side-Angle, Side-Side-Side, Angle-Angle-Side, and Hypotenuse-Leg congruence conditions
- Apply the Angle-Angle criterion to verify similar triangles and apply the proportionality of the corresponding sides to solve problems
- Determine the lengths of sides and measures of angles in a right triangle by applying the trigonometric ratios sine, cosine, and tangent to solve problems

- Apply the relationships in special right triangles 30° - 60° - 90° and 45° - 45° - 90° and the Pythagorean theorem, including Pythagorean triples, to solve problems
- Determine and describe how changes in the linear dimensions of a shape affect its perimeter, area, surface area, or volume, including proportional and non-proportional dimensional change
- Determine the area of composite two-dimensional figures comprised of a combination of triangles, parallelograms, trapezoids, kites, regular polygons, or sectors of circles to solve problems using appropriate units of measure
- Apply the formulas for the total and lateral surface area of three-dimensional figures, including prisms, pyramids, cones, cylinders, spheres, and composite figures, to solve problems using appropriate units of measure
- Apply the formulas for the volume of three-dimensional figures, including prisms, pyramids, cones, cylinders, spheres, and composite figures, to solve problems using appropriate units of measure
- Identify whether two events are independent and compute the probability of the two events occurring together with or without replacement

Class Materials:

- Two notebooks (one for class work and the other for homework)
- Sharpened pencils,erasers.
- T1 83/84 Graphing calculators

Our book:

Mc Graw Hill : Texas Tekes Geometry

Teacher Contact Information:

Email: tehminalbilal@islamicschoolofirving.org

Grade reporting:

Progress reports are sent home every four and a half (4 ½) weeks and report cards are sent home every nine (9) weeks. Refer to the school calendar for dates.

Breakdown of Grade Percentage Categories All Subjects Grades 6-12

● Homework	15%
● Class work\ Participation & Attendance	25%
● Projects (Notebook, folder & Presentations)	20%
● Tests/Quizzes	40%
TOTAL	100%

Make-up Work Policy:

It is the student's and parent's responsibility to ask teachers what assignments are missed. Make-up work will not be given before students are absent. Parents may pick up the assignment if their child is sick. Students will be allowed to make-up work at the discretion of the teacher in the case of unexcused absences.

Points will be deducted, in case of late homework. 10% will be deducted if work is late by one day. 5% for each of the following days that the work is late. The students will end up with a missing work grade (zero) if it's late by two weeks or longer from the date it was assigned.

Tardiness

- Unexcused absences resulting from tardiness will be recorded in a student's overall attendance, which could affect promotion. Three tardy count as one absence.
- In case of arriving after 5 minutes of the class time, late student must present a tardy slip from the previous teacher/office and will be excused otherwise he/she will be tardy for the class.

Class requirements:

- All students (with no exceptions) are expected to be on time and prepared. .
- All class materials must be present with the student at the class time
- If entering the classroom late, it is expected that the student say Assalamu Alaikum to the class.
- Students are expected to be polite and be respectful to others.

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- Students must have an email (checked regularly) for communications such as lesson plans, assignments, test dates, late assignments, questions and answers, etc.
 - No Electronic Devices – Cell phones are not allowed in class without the teacher's permission. Violation leads to the phone being taken up. This rule also includes ipods, mp3 players, gaming devices or any other electronic device. Having a cell phone out during an exam will result in an automatic zero.

Academic Integrity:

- It's OK to make mistakes, it is a part of the learning process, but copying others' work for a better grade is not acceptable.
- I hold up my students to high standards and expect that they will attempt all the tests and quizzes honestly.

❖ Please refer to the DISCIPLINE AND BEHAVIOR POLICY of ISLAMIC SCHOOL OF IRVING.

If you have any questions or concerns or if you would like to visit our classroom, schedule a conference, or volunteer to help out, you can contact me at tehmina.bilal@islamicschoolofirving.org.

Once again, welcome to 9th grade . Let's work together to make this the best year ever!

May Allah bless our time together,

Tehmina Bilal