Integrated Mathematics Summer School
Course Syllabus

Class Description

Integrated Mathematic summer school will be 12 intense days that will cover course material from Math I, Math II, and Math III. Topics that will be covered include: Exponent Properties, Naming Polynomials, Operations with Polynomials, Factoring Polynomials, Linear Functions, Solving Equations, Geometry, Graphing, & Trigonometry.

Materials

Every student is expected to come prepared each day with the following:

1. Notebook with lined paper
2. Writing utensil (Pencils are recommended)
3. Calculator (Getting a TI-83 Plus or TI-84 Plus strongly recommended)
4. Completed Assignments

Evaluation

Grades will be determined on the following:

1. Bell work:
   Bell work will be given several times daily as we switch from topic to topic. You will be expected to complete each of the problems provided prior to the classroom instruction on each topic. Unlike during the regular semesters, bell work sheets will be a packet. There will be one sheet for each day of the week.
   Bell work sheets will be turned in at the end of each day!

2. Independent Practice/Homework:
   Homework for the summer semester will be a little different from the regular semester material. At the beginning of each day you will be presented a packet. This packet will include problems that we will work on in class as examples and Completion assignments. At the end of the day then you will take home a small packet over the topics learned throughout that day that are to be completed as Accuracy assignments. If you are absent from class, you will be expected to make up all homework that was assigned throughout the day and the Accuracy assignments that are sent home for that evening!
   You will receive homework DAILY!

3. Quizzes:
   There will be a total of 8 quizzes given throughout summer school. There will be a minimum of one question from each of the topics covered from throughout the day. If you are absent on the day a quiz is administered you will be expected to arrange a date and time to either come in early or stay late to make up that assessment.
   If not made up, missed quizzes will be entered in as a zero!

4. Tests
   Tests will be given as follows:
   Week 1 – Friday at the end of the class session.
   This assessment will cover all topics covered Tuesday through Friday.
   Week 2 – Friday at the end of the class session.
   This assessment will cover all topics covered Monday through Friday.
   Week 3 – Thursday the end of the class session.
   This assessment will cover all topics covered Monday through Thursday.
   Week 3 – Friday at the end of the class session.
   Cumulative Summer Semester Final Exam
   If not made up, missed tests will be entered in as a zero!

5. Projects
   Week 2 you will be given a Coordinate plane graphing project to complete.

Grades

Grades will be weighted according to the following system:
Bellwork: 5%
Homework Completion: 5%
Homework Accuracy: 10%
Quizzes: 20%
Pre-Test: 0%
Post-Test: 50%
Projects: 10%

The grading scale for this class will be the same as that in the HAHS student handbook.

Hours of Availability

1. **After class** – This will vary depending on what I have going on that evening.
   TBA

Classroom Rules/Expectations

1. Be respectful of the teacher, fellow classmates, and yourselves.
2. During class you are only to work on the material for this class!
3. Swearing is inappropriate and will not be tolerated.
4. Be an active participant in class. This means taking good notes, being cooperative, and contributing during the session.
5. Raise your hand if you have a question or comment and I will call on you. If another student asks a question and you think you can offer an answer please raise your hand and offer your advice.
6. Use the garbage can! Do not throw paper on the floor or anywhere else besides the garbage cans! **This is a classroom and not a GYM, so DO NOT shoot your papers from across the room!**
7. Be comfortable, and ready to work!
8. You may bring in something to snack on. I have a small fridge so if you need it to stay cold we can find room in there. Please limit it to something for that day so we have enough space.

Failure to adhere to any of the above rules will result in the following:

1st offense: Verbal warning
2nd offense: Call home and discuss your behavior with your parent/guardian.

Note: I, Mr. Brewer, have the right to alter this at any point during the semester in order to best meet the needs of my students.

Please feel free to contact me via e-mail at brewerga@hoopeston.k12.il.us or by phone at (217) 722-9331

Summer Semester – Scope and Sequence

Monday	Tuesday	Wednesday	Thursday
1st Day – Quiz @ End of Day	**2nd Day – Quiz @ End of Day**	**3rd Day – Quiz @ End of Day**	**4th Day – Test @ End of Day**
Syllabus and Expectations Exponent Properties: Multiplying like bases Dividing like bases Product of a power Quotient of a power Power of a power Zero exponent Negative exponents Naming Polynomials: Degree Number of terms	Recap of Exponent Properties Operations with Polynomials: Like Terms Adding Polynomials Subtracting Polynomials Multiplying Polynomials Dividing Polynomials – Long/Synthetic division	Factoring Polynomials: Binomials - GCF Quadratics Trinomials – U Substitution Polynomials	Linear Functions: Finding slope given a graph Finding slope given two points Write eqn given Slope/Intercept Write eqn given a graph Write eqn given 2 points
5th Day – Quiz @ End of Day	**6th Day – Quiz @ End of Day**	**7th Day – Quiz @ End of Day**	**8th Day – Test @ End of Day**
Solving Equations: Linear – 1 Step Linear – 2 Step Linear – Multistep Quadratics – Quadratic Formula Polynomials – Rational Rt Thm & Descartes Rule of Signs	Solving Equations: Polynomials – Rational Rt Thm & Descartes Rule of Signs Logarithmic Exponential	Geometry: Terminology – Line, Line Segment, Rays, & Plane Graphing/Naming Ordered Pairs COORDINATE PLANE PROJECT Parallel Lines – Corresponding, Alt. Interior, Alt. Exterior, Same Side Interior, Vertical Angles Midpoint Formula Distance Formula	Graphing: Linear Functions Quadratic Functions Rational Functions – Holes, Vertical/Horizontal Asymptotes
9th Day – Quiz @ End of Day	**10th Day – Quiz @ End of Day**	**11th Day – Test @ End of Day**	**12th Day**
Geometric Proofs: Congruence proofs by - Side-Side-Side Side-Angle-Side Angle-Side-Angle Angle-Angle-Side Hypotenuse-Leg Similarity Proofs by – Angle-Angle Side-Side-Side Side-Angle-Side	Trigonometry: SOH-CAH-TOA Unit Circle – Hand Trick Solving Triangles – Right Triangles Solving Triangles – Law of Sines Solving Triangles – Law of Cosines	Circles: Terminology – Chord, Radius, Diameter, Secant, Tangent, & Pt of Tangency Circumference Arc Length Area of a circle Area of a sector	Makeup work Review Reteach Summer Semester Exam

Please detach and return to Mr. Brewer

I acknowledge that I have read through the syllabus and understand all that is expected of myself in the classroom. If questions or problems arise in the classroom I will notify Mr. Brewer right away in an attempt to reach a resolution.

Students Signature: _____

Date: _____

This is just to verify that you have also been shown the syllabus and understand what is expected of your student in the classroom. If questions arise at any time please feel free to contact me or even set up a time to visit me in the classroom. I would love to meet each and every one of you, but I understand that sometimes that is simply not possible.

Parent/Guardians Signature: _____

Date: _____