

## The IAM Assessment for Incoming Freshmen

The IAM mandatory entrance test is comprised of two assessments, language arts and mathematics. The language arts component asks the students to read a poem or a short prose passage and write an essay in response to a prompt relative to the reading. The mathematics component assesses concepts typically found in traditional algebra I and geometry courses and is primarily skill and content based. The assessment is a multiple-choice test. A penalty, however, is applied for incorrect answers to discourage guessing. **No calculators, spell checks, or other aides may be used on these assessments.**

Recognizing that our eighth grade candidates are coming from a variety of math programs throughout the county, the entrance tests serves as a placement assessment to help determine which math course in our program would be most appropriate for each student.

On the mathematics assessment, students are given the opportunity to demonstrate competence with algebra topics such as (but not limited to):

order of operations, ratios and percents, operations with fractions, basic probability, solving linear equations and inequalities, graphing linear equations and inequalities, slope and slope-intercept form of equations, solving systems of equations and inequalities, polynomial expressions, radical and rational expressions, factoring, solving quadratic equations, basic quadratic graphing, solving rational equations, distance and midpoint formulas, and equations of circles.

Geometry topics include (but are not limited to):

base angle and line relationships, parallel and perpendicular lines, congruent triangles, relationships in triangles, right triangle trigonometry, relationships in quadrilaterals, circles, area and volume, and surface area.