

***FlyBy Math™* Alignment  
Mathematics Content Standards and Objectives**

**Standard 2: Algebra (MA.S.2)**

Students will:

- demonstrate understanding of patterns, relations, and functions;
- represent and analyze mathematical situations and structures using algebraic symbols;
- use mathematical models to represent and understand quantitative relationships; and
- analyze change in various contexts

through communication, representation, reasoning and proof, problem solving, and making connections within and beyond the field of mathematics.

**Algebra Objectives**

Students will:

A1.2.4 solve literal equations for a given variable and apply the skills toward solving practical problems.

A1.2.8 determine the slope of a line given an equation of a line, the graph of a line and two points to be identified.

A1.2.11 solve systems of linear equations numerically and graphically, by the elimination method and by the substitution method.

***FlyBy Math™* Activities**

--Use the distance-rate-time formula to predict and analyze aircraft conflicts.

--Interpret the slope of a line in the context of a distance-rate-time problem.

--Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system.