

**FlyBy Math™ Alignment**  
**2003 Mathematics Standard Course of Study and**  
**Grade Level Competencies**

**Strand: Data Analysis and Probability**

**COMPETENCY GOAL 4: The learner will understand and determine probabilities.**

**Objectives**

4.06 Design and conduct experiments or surveys to solve problems; report and analyze results.

**FlyBy Math™ Activities**

--Conduct simulation and measurement for several aircraft conflict problems.

--Predict outcomes and explain results of mathematical models and experiments.

**Strand: Algebra**

**COMPETENCY GOAL 5: The learner will demonstrate an understanding of simple algebraic expressions.**

**Objectives**

5.04 Use graphs, tables, and symbols to model and solve problems involving rates of change and ratios.

**FlyBy Math™ Activities**

--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.

--Use graphs to compare airspace scenarios for both the same and different starting conditions and the same and different rates.

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