

**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 use graphs and data analysis.**

**Objectives**

4.01 Collect, organize, analyze, and display data (including stem-and-leaf plots) to solve problems.

**FlyBy Math™ Activities**

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

--Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs.

4.02 Compare and contrast different representations of the same data; discuss the effectiveness of each representation.

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

**Strand: Algebra**

**COMPETENCY GOAL 5: The learner will demonstrate an understanding of patterns, relationships, and elementary algebraic representation.**

**Objectives**

5.03 Identify, describe, and analyze situations with constant or varying rates of change.

**FlyBy Math™ Activities**

--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.