

***FlyBy Math™* Alignment**  
**South Dakota Mathematics Content Standards**  
**May 17, 2004**

**Algebra Standards**

**Indicator 3: Interpret and develop mathematical models.**

<b>Standard and Supporting Skills</b>	<b><i>FlyBy Math™</i> Activities</b>
7.A.3.1. (Application) Identify and graph ordered pairs on a coordinate plane and inequalities on a number line.	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.
7.A.3.2. (Application) Model and solve multi-step problems involving rates.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

**Indicator 4: Analyze and describe the properties and behaviors of relations, functions, and their inverses.**

<b>Standard and Supporting Skills</b>	<b><i>FlyBy Math™</i> Activities</b>
7.A.4.1. (Application) Recognize one-step patterns using tables, graphs, and models and create one-step algebraic expressions representing the pattern.	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.

**Statistics and Probability Standards**

**Indicator 1: Use statistical models to gather, analyze, and display data to draw conclusions.**

<b>Standard and Supporting Skills</b>	<b><i>FlyBy Math™</i> Activities</b>
7.S.1.2. (Application) Display data, using frequency tables, line plots, stem-and-leaf plots and make predictions from data displayed in a graph.	--Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs.  --Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.