

***LineUp With Math™* Alignment to
Wyoming Mathematics Content and Performance Standards
Adopted July 7, 2003**

Content Standard 1: Number Operations and Concepts

Students use numbers, number sense, and number relationships in a problem-solving situation.

Benchmark: Grade 11

4. Students use proportional reasoning to solve problems.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Content Standard 2: Geometry

Students apply geometric concepts, properties, and relationships in problem-solving situations.

Benchmark: Grade 11

3. Students communicate the reasoning used in identifying geometric relationships in problem-solving situations.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

-- Predict and plot the relative motion of two or more airplanes on given paths.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

Content Standard 3: Measurement

Students use a variety of tools and techniques in measurement in a problem-solving situation.

Benchmark: Grade 11

1. Students apply estimation and measurement using the appropriate methods and units to solve problems involving length, weight/mass, area, surface area, volume, and angle measure.

***LineUp With Math™* Activities**

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

3. Students identify and apply scale, ratios, and proportions in solving measurement problems.

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

4. Students solve indirect measurement problems.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
--	---

Content Standard 4: Algebra

Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation.

<p>Benchmark: Grade 11</p> <p>1. Students use algebraic concepts, symbols, and skills to represent and solve real-world problems.</p>	<p><i>LineUp With Math™</i> Activities</p> <p>--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.</p> <p>--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.</p>
5. Students connect algebra with other mathematical topics.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.