Title: Where'd They Get That Idea?		Alignment to CA Math Standards
Lesson Number	**Lesson Title**	**http://www.cde.ca.gov/be/st/ss/documents/mathstandard.pdf**
Lesson 1	The Orientation Class	An appropriate alignment is not available for this lesson.
Lesson 2	Money Makes Cares	An appropriate alignment is not available for this lesson.
Lesson 3	How Long Could You Observe a Stinky Fish	An appropriate alignment is not available for this lesson.
Lesson 4	Are These Figures the Same?	Measurement and Geometry (Grade 6) Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle).
		Mathematical Reasoning (Grade 6) 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.
		Mathematical Reasoning (Grade 6) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 6) 2.5 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 6) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.
		Mathematical Reasoning (Grade 6) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 6) 3.3 Develop generalizations of the results obtained and the strategies used and apply them in new problem situations.
		Measurement and Geometry (Grade 7) 3.4 Demonstrate an understanding of conditions that indicate two geometrical figures are congruent and what congruence means about the relationships between the sides and angles of the two figures.
		Mathematical Reasoning (Grade 7) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 7) 2.2 Apply strategies and results from simpler problems to more complex problems.
		Mathematical Reasnoning (Grade 7) 2.4 Make and test conjectures by using both inductive and deductive reasoning.
		Mathematical Reasoning (Grade 7) 2.6 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 7) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.

		Mathematical Reasoning (Grade 7) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 7) 3.3 Develop generalizations of the results obtained and the strategies used and apply them to new problem situations.
		Geometry (Grade 8) 4.0 Students prove basic theorems involving congruence and similarity.
		Geometry (Grade 8) 5.0 Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles.
		Geometry (Grade 8) 12.0 Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems.
		Geometry (Grade 8) 20.0 Students know and are able to use angle and side relationships in problems with special right triangles, such as 30°, 60°, and 90° triangles and 45°, 45°, and 90° triangles.
Lesson 5	Why Does a Ball Keep Moving After You Throw It?	An appropriate alignment is not available for this lesson.
Lesson 6	How Straight Is Straight?	Mathematical Reasoning (Grade 6) 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.
		Mathematical Reasoning (Grade 6) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 6) 2.5 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 6) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.
		Mathematical Reasoning (Grade 6) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 6) 3.3 Develop generalizations of the results obtained and the strategies used and apply them in new problem situations.
		Mathematical Reasoning (Grade 7) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 7) 2.2 Apply strategies and results from simpler problems to more complex problems.
		Mathematical Reasnoning (Grade 7) 2.4 Make and test conjectures by using both inductive and deductive reasoning.
		Mathematical Reasoning (Grade 7) 2.6 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 7) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.
		Mathematical Reasoning (Grade 7) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.

		Mathematical Reasoning (Grade 7) 3.3 Develop generalizations of the results obtained and the strategies used and apply them to new problem situations.
Lesson 7	How Does a Scientist Think?	An appropriate alignment is not available for this lesson.
Lesson 8	Do You Like Mathematics?	An appropriate alignment is not available for this lesson.
Lesson 9	Does the Universe Ever End?	An appropriate alignment is not available for this lesson.
Lesson 10	Why Do We Study Math?	An appropriate alignment is not available for this lesson.
Lesson 11	Symmetry: Can You Prove It?	Measurement and Geometry (Grade 6) Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle).
		Mathematical Reasoning (Grade 6) 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.
		Mathematical Reasoning (Grade 6) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 6) 2.5 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 6) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.
		Mathematical Reasoning (Grade 6) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 6) 3.3 Develop generalizations of the results obtained and the strategies used and apply them in new problem situations.
		Measurement and Geometry (Grade 7) 3.4 Demonstrate an understanding of conditions that indicate two geometrical figures are congruent and what congruence means about the relationships between the sides and angles of the two figures.
		Mathematical Reasoning (Grade 7) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 7) 2.2 Apply strategies and results from simpler problems to more complex problems.
		Mathematical Reasnoning (Grade 7) 2.4 Make and test conjectures by using both inductive and deductive reasoning.
		Mathematical Reasoning (Grade 7) 2.6 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 7) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.

		Mathematical Reasoning (Grade 7) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 7) 3.3 Develop generalizations of the results obtained and the strategies used and apply them to new problem situations.
		Geometry (Grade 8) 4.0 Students prove basic theorems involving congruence and similarity.
		Geometry (Grade 8) 5.0 Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles.
		Geometry (Grade 8) 12.0 Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems.
		Geometry (Grade 8) 20.0 Students know and are able to use angle and side relationships in problems with special right triangles, such as 30°, 60°, and 90° triangles and 45°, 45°, and 90° triangles.
Lesson 12	Should Scientists Experiment on Animals?	An appropriate alignment is not available for this lesson.
Lesson 18	Do Triangles Really Exist?	Measurement and Geometry (Grade 6) Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle).
		Mathematical Reasoning (Grade 6) 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.
		Mathematical Reasoning (Grade 6) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 6) 2.5 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 6) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.
		Mathematical Reasoning (Grade 6) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 6) 3.3 Develop generalizations of the results obtained and the strategies used and apply them in new problem situations.
		Measurement and Geometry (Grade 7) 3.4 Demonstrate an understanding of conditions that indicate two geometrical figures are congruent and what congruence means about the relationships between the sides and angles of the two figures.
		Mathematical Reasoning (Grade 7) 1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.
		Mathematical Reasoning (Grade 7) 2.2 Apply strategies and results from simpler problems to more complex problems.
		Mathematical Reasnoning (Grade 7) 2.4 Make and test conjectures by using both inductive and deductive reasoning.

		Mathematical Reasoning (Grade 7) 2.6 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.
		Mathematical Reasoning (Grade 7) 3.1 Evaluate the reasonableness of the solution in the context of the original situation.
		Mathematical Reasoning (Grade 7) 3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.
		Mathematical Reasoning (Grade 7) 3.3 Develop generalizations of the results obtained and the strategies used and apply them to new problem situations.
		Geometry (Grade 8) 4.0 Students prove basic theorems involving congruence and similarity.
		Geometry (Grade 8) 5.0 Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles.
		Geometry (Grade 8) 12.0 Students find and use measures of sides and of interior and exterior angles of triangles and polygons to classify figures and solve problems.
		Geometry (Grade 8) 20.0 Students know and are able to use angle and side relationships in problems with special right triangles, such as 30°, 60°, and 90° triangles and 45°, 45°, and 90° triangles.