

Exploring the Extreme			
1995 Mathematics			
Content Standards			
Alaska Mathematics			
Grades K-12			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	AK	MA.K-12.A.2	select and use appropriate systems, units, and tools of measurement, including estimation;
Finding the Center of Gravity Using Rulers	AK	MA.K-12.A.6	collect, organize, analyze, interpret, represent, and formulate questions about data and make reasonable and useful predictions about the certainty, uncertainty, or impossibility of an event.
Finding the Center of Gravity Using Rulers	AK	MA.K-12.C.1	express and represent mathematical ideas using oral and written presentations, physical materials, pictures, graphs, charts, and algebraic expressions;
Finding the Center of Gravity Using Rulers	AK	MA.K-12.C.2	relate mathematical terms to everyday language;
Changing the Center of Gravity Using Moment Arms	AK	MA.K-12.A.4	represent, analyze, and use mathematical patterns, relations, and functions using methods such as tables, equations, and graphs;
Changing the Center of Gravity Using Moment Arms	AK	MA.K-12.A.6	collect, organize, analyze, interpret, represent, and formulate questions about data and make reasonable and useful predictions about the certainty, uncertainty, or impossibility of an event.
Changing the Center of Gravity Using Moment Arms	AK	MA.K-12.C.1	express and represent mathematical ideas using oral and written presentations, physical materials, pictures, graphs, charts, and algebraic expressions;
Changing the Center of Gravity Using Moment Arms	AK	MA.K-12.C.2	relate mathematical terms to everyday language;
Jet Propulsion	AK	MA.K-12.A.6	collect, organize, analyze, interpret, represent, and formulate questions about data and make reasonable and useful predictions about the certainty, uncertainty, or impossibility of an event.
Jet Propulsion	AK	MA.K-12.C.1	express and represent mathematical ideas using oral and written presentations, physical materials, pictures, graphs, charts, and algebraic expressions;
Jet Propulsion	AK	MA.K-12.C.2	relate mathematical terms to everyday language;

Vectoring	AK	MA.K-12.A.6	collect, organize, analyze, interpret, represent, and formulate questions about data and make reasonable and useful predictions about the certainty, uncertainty, or impossibility of an event.
Vectoring	AK	MA.K-12.B.3	formulate mathematical problems that arise from everyday situations;
Vectoring	AK	MA.K-12.C.1	express and represent mathematical ideas using oral and written presentations, physical materials, pictures, graphs, charts, and algebraic expressions;
Vectoring	AK	MA.K-12.C.2	relate mathematical terms to everyday language;
Vectoring	AK	MA.K-12.D.5	use inductive reasoning to recognize patterns and form mathematical propositions.
Center of Gravity, Pitch, Yaw	AK	MA.K-12.A.1.a	numbers, number systems, counting numbers, whole numbers, integers, fractions, decimals, and percents; and
Center of Gravity, Pitch, Yaw	AK	MA.K-12.A.2	select and use appropriate systems, units, and tools of measurement, including estimation;
Center of Gravity, Pitch, Yaw	AK	MA.K-12.A.3	perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools for computation or estimation including mental arithmetic, paper and pencil, a calculator, and a computer;
Center of Gravity, Pitch, Yaw	AK	MA.K-12.B.1	use computational methods and appropriate technology as problem-solving tools;
Fuel Efficiency	AK	MA.K-12.A.2	select and use appropriate systems, units, and tools of measurement, including estimation;
Fuel Efficiency	AK	MA.K-12.A.3	perform basic arithmetic functions, make reasoned estimates, and select and use appropriate methods or tools for computation or estimation including mental arithmetic, paper and pencil, a calculator, and a computer;
Fuel Efficiency	AK	MA.K-12.A.4	represent, analyze, and use mathematical patterns, relations, and functions using methods such as tables, equations, and graphs;
Fuel Efficiency	AK	MA.K-12.B.6	use common sense to help interpret results;
Fuel Efficiency	AK	MA.K-12.C.1	express and represent mathematical ideas using oral and written presentations, physical materials, pictures, graphs, charts, and algebraic expressions;