Ratios & Proportional Relationships						
Indicator	Date	Date	Date	Date	Date	
	Taught	Retaught	Reviewed	Assessed	ReAssessed	
Analyze proportional relationships	and use ther	n to solve rea	l-world and m	nathematical	problems.	
CCSS.Math.Content.7.RP.A.1						
Compute unit rates associated with						
ratios of fractions, including ratios of						
lengths, areas and other quantities						
measured in like or different units.						
CCSS.Math.Content.7.RP.A.2						
Recognize and represent						
proportional relationships between						
quantities.						
CCSS.Math.Content.7.RP.A.2a Decide						
whether two quantities are in a						
proportional relationship, e.g., by						
testing for equivalent ratios in a table or						
graphing on a coordinate plane and						
observing whether the graph is a						
straight line through the origin.						
CCSS.Math.Content.7.RP.A.2b Identify						
the constant of proportionality (unit						
rate) in tables, graphs, equations,						
diagrams, and verbal descriptions of						
proportional relationships.						
CCSS.Math.Content.7.RP.A.2c Represent						
proportional relationships by equations.						
For example, if total cost t is						
proportional to the number n of items						
purchased at a constant price p, the						
relationship between the total cost and						
the number of items can be expressed						
as $t = pn$.						
CCSS.Math.Content.7.RP.A.2d Explain						
what a point (x, y) on the graph of a proportional relationship means in						
terms of the situation, with special						
attention to the points $(0, 0)$ and $(1, r)$						
where r is the unit rate.						
CCSS.Math.Content.7.RP.A.3 Use						
proportional relationships to solve						
multistep ratio and percent						
problems. Examples: simple interest,						
tax, markups and markdowns,						
gratuities and commissions, fees,						
percent increase and decrease,						
percent error.			l	l		

The Number System						
Indicator	Date	Date	Date	Date	Date	
	Taught	Retaught	Reviewed	Assessed	ReAssessed	
Apply and extend pre	vious underst	tandings of op	erations with	fractions.		
CCSS.Math.Content.7.NS.A.1 Apply						
and extend previous understandings						
of addition and subtraction to add						
and subtract rational numbers;						
represent addition and subtraction						
on a horizontal or vertical number						
line diagram.						
CCSS.Math.Content.7.NS.A.1a Describe						
situations in which opposite quantities						
combine to make 0. For example, a						
hydrogen atom has 0 charge because its						
two constituents are oppositely						
charged.						
CCSS.Math.Content.7.NS.A.1b						
Understand $p + q$ as the number located						
a distance q from p, in the positive or						
negative direction depending on						
whether q is positive or negative. Show						
that a number and its opposite have a						
sum of 0 (are additive inverses).						
Interpret sums of rational numbers by						
describing real-world contexts.						
CCSS.Math.Content.7.NS.A.1c						
Understand subtraction of rational						
numbers as adding the additive inverse,						
p-q=p+(-q). Show that the distance						
between two rational numbers on the						
number line is the absolute value of						
their difference, and apply this principle						
in real-world contexts.						
CCSS.Math.Content.7.NS.A.1d Apply						
properties of operations as strategies to						
add and subtract rational numbers.						

Indicator	Date	Date	Date	Date	Date
	Taught	Retaught	Reviewed	Assessed	ReAssessed
Apply and extend previou	us understand	lings of opera	tions with fra	ctions. (cont.))
CCSS.Math.Content.7.NS.A.2 Apply					
and extend previous understandings					
of multiplication and division and of					
fractions to multiply and divide					
rational numbers.					
CCSS.Math.Content.7.NS.A.2a					
Understand that multiplication is					
extended from fractions to rational					
numbers by requiring that operations					
continue to satisfy the properties of					
operations, particularly the distributive					
property, leading to products such as (–					
1)(-1) = 1 and the rules for multiplying					
signed numbers. Interpret products of					
rational numbers by describing real-					
world contexts.					
CCSS.Math.Content.7.NS.A.2b					
Understand that integers can be					
divided, provided that the divisor is not					
zero, and every quotient of integers					
(with non-zero divisor) is a rational					
number. If p and q are integers, then –					
(p/q) = (-p)/q = p/(-q). Interpret					
quotients of rational numbers by describing real-world contexts.					
CCSS.Math.Content.7.NS.A.2c Apply					
properties of operations as strategies to					
multiply and divide rational numbers.					
CCSS.Math.Content.7.NS.A.2d Convert a					
rational number to a decimal using long					
division; know that the decimal form of					
a rational number terminates in 0s or					
eventually repeats.					
CCSS.Math.Content.7.NS.A.3 Solve					
real-world and mathematical					
problems involving the four					
operations with rational numbers.					

Expressions & Equations					
Indicator	Date	Date	Date	Date	Date
	Taught	Retaught	Reviewed	Assessed	ReAssessed
Use properties of	operations to	generate equ	ivalent expre	ssions.	
CCSS.Math.Content.7.EE.A.1 Apply	•				
properties of operations as strategies					
to add, subtract, factor, and expand					
linear expressions with rational					
coefficients.					
CCSS.Math.Content.7.EE.A.2					
Understand that rewriting an					
expression in different forms in a					
problem context can shed light on					
the problem and how the quantities					
in it are related. For example, a +					
0.05a = 1.05a means that "increase					
by 5%" is the same as "multiply by					
1.05."					
Solve real-life and mathematical pro	blems using i	numerical and	d algebraic ex	pressions and	equations.
CCSS.Math.Content.7.EE.B.3 Solve			a algebraic ex		
multi-step real-life and mathematical					
problems posed with positive and					
negative rational numbers in any					
form (whole numbers, fractions, and					
decimals), using tools strategically.					
Apply properties of operations to					
calculate with numbers in any form;					
convert between forms as					
appropriate; and assess the					
reasonableness of answers using					
mental computation and estimation					
strategies.					
CCSS.Math.Content.7.EE.B.4 Use					
variables to represent quantities in a					
real-world or mathematical problem,					
and construct simple equations and					
inequalities to solve problems by					
reasoning about the quantities.					
CCSS.Math.Content.7.EE.B.4a Solve					
word problems leading to equations of					
the form $px + q = r$ and $p(x + q) = r$,					
where p, q, and r are specific rational					
numbers. Solve equations of these					
forms fluently. Compare an algebraic					
solution to an arithmetic solution,					
identifying the sequence of the					
operations used in each approach.					

Indicator	Date	Date	Date	Date	Date		
	Taught	Retaught	Reviewed	Assessed	ReAssessed		
Solve real-life and mathematical proble	Solve real-life and mathematical problems using numerical and algebraic expressions and equations. (cont)						
CCSS.Math.Content.7.EE.B.4b Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.							

Geometry							
Indicator	Date	Date	Date	Date	Date		
	Taught	Retaught	Reviewed	Assessed	ReAssessed		
Draw construct, and describe geo	metrical figur	es and descri	be the relatio	nships betwe	en them.		
CCSS.Math.Content.7.G.A.1 Solve							
problems involving scale drawings of							
geometric figures, including							
computing actual lengths and areas							
from a scale drawing and							
reproducing a scale drawing at a							
different scale.							
CCSS.Math.Content.7.G.A.2 Draw							
(freehand, with ruler and protractor,							
and with technology) geometric							
shapes with given conditions. Focus							
on constructing triangles from three							
measures of angles or sides, noticing							
when the conditions determine a							
unique triangle, more than one							
triangle, or no triangle.							
CCSS.Math.Content.7.G.A.3 Describe							
the two-dimensional figures that							
result from slicing three-dimensional							
figures, as in plane sections of right							
rectangular prisms and right							
rectangular pyramids.							
Solve real-life and mathematical pro	oblems involv	ing angle mea	asure, area, su	urface area, a	nd volume.		
CCSS.Math.Content.7.G.B.4 Know							
the formulas for the area and							
circumference of a circle and use							
them to solve problems; give an							
informal derivation of the							
relationship between the							
circumference and area of a circle.							
CCSS.Math.Content.7.G.B.5 Use facts							
about supplementary,							
complementary, vertical, and							
adjacent angles in a multi-step							
problem to write and solve simple							
equations for an unknown angle in a							
figure.							
CCSS.Math.Content.7.G.B.6 Solve							
real-world and mathematical							
problems involving area, volume and							
surface area of two- and three-							
dimensional objects composed of							
triangles, quadrilaterals, polygons,							
cubes, and right prisms.							

Statistics & Probability							
Indicator	Date	Date	Date	Date	Date		
	Taught	Retaught	Reviewed	Assessed	ReAssessed		
Use random sampling to draw inferences about a population.							
CCSS.Math.Content.7.SP.A.1							
Understand that statistics can be							
used to gain information about a							
population by examining a sample of							
the population; generalizations							
about a population from a sample							
are valid only if the sample is							
representative of that population.							
Understand that random sampling							
tends to produce representative							
samples and support valid							
inferences.							
CCSS.Math.Content.7.SP.A.2 Use							
data from a random sample to draw							
inferences about a population with							
an unknown characteristic of							
interest. Generate multiple samples							
(or simulated samples) of the same							
size to gauge the variation in							
estimates or predictions.							
Draw informal co	mparative inf	ferences abou	ıt two popula	tions.			
CCSS.Math.Content.7.SP.B.3							
Informally assess the degree of visual							
overlap of two numerical data							
distributions with similar							
variabilities, measuring the							
difference between the centers by							
expressing it as a multiple of a							
measure of variability.							
CCSS.Math.Content.7.SP.B.4 Use							
measures of center and measures of							
variability for numerical data from							
random samples to draw informal							
comparative inferences about two							
populations.							

Indicator	Date	Date	Date Reviewed	Date Assessed	Date ReAssessed
Investigate chance proces	Taught	Retaught		1 1000000	1101100000
CCSS.Math.Content.7.SP.C.5	ses and dever	op, use, and e		ability illouer	j.
Understand that the probability of a chance event is a number between 0					
and 1 that expresses the likelihood					
of the event occurring. Larger					
numbers indicate greater likelihood.					
A probability near 0 indicates an					
unlikely event, a probability around					
1/2 indicates an event that is neither					
unlikely nor likely, and a probability					
near 1 indicates a likely event.					
CCSS.Math.Content.7.SP.C.6					
Approximate the probability of a					
chance event by collecting data on					
the chance process that produces it					
and observing its long-run relative					
frequency, and predict the					
approximate relative frequency					
given the probability.					

Indicator	Date	Date	Date	Date	Date
malcator	Taught	Retaught	Reviewed	Assessed	ReAssessed
Investigate chance processes					
CCSS.Math.Content.7.SP.C.7 Develop	ана астоюр,				
a probability model and use it to find					
probabilities of events. Compare					
probabilities from a model to					
observed frequencies; if the					
agreement is not good, explain					
possible sources of the discrepancy.					
CCSS.Math.Content.7.SP.C.7a Develop a					
uniform probability model by assigning					
equal probability to all outcomes, and					
use the model to determine					
probabilities of events.					
CCSS.Math.Content.7.SP.C.7b Develop a					
probability model (which may not be					
uniform) by observing frequencies in					
data generated from a chance process.					
CCSS.Math.Content.7.SP.C.8 Find					
probabilities of compound events					
using organized lists, tables, tree					
diagrams, and simulation.					
CCSS.Math.Content.7.SP.C.8a					
Understand that, just as with simple					
events, the probability of a compound					
event is the fraction of outcomes in the					
sample space for which the compound					
event occurs.					
CCSS.Math.Content.7.SP.C.8b Represent					
sample spaces for compound events					
using methods such as organized lists,					
tables and tree diagrams. For an event					
described in everyday language (e.g.,					
"rolling double sixes"), identify the					
outcomes in the sample space which					
compose the event.					
CCSS.Math.Content.7.SP.C.8c Design					
and use a simulation to generate					
frequencies for compound events.					