Assessment Plan

Grade: 7 Unit 3: Rational Number Operations

Standards/Topics	Conceptual	Procedural Skill &	Application
	Understanding	Fluency	
6.NS.5	6.NS.5 Integers and Absolute Value		
6.NS.6	Lesson 1		
6.NS.7	Number Line		
	Pre-Assessment		
	Answ	er Key	
		ent Skeleton	
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7.NS 1. Apply and extend previous	Contexts and	Contexts and	
understandings of addition and	Representations for	Representations for	
subtraction to add and subtract	Adding and Subtracting	Adding and Subtracting	
rational numbers; represent	Integers	Integers	
addition and subtraction on a	Lesson 2	Lesson 2	
horizontal or vertical number line	Formative	Formative	
diagram. a. Describe situations in which			
a. Describe situations in which opposite quantities combine to			
make 0. For example, a	Contexts and	Contexts and	
hydrogen atom has 0 charge	Representations for	Representations for	
because its two constituents	Adding and Subtracting	Adding and Subtracting	
are oppositely charged.	Rational Numbers	Rational Numbers	
(PBA/MYA), (EOY)	Lesson 3	Lesson 3	
	Summative	Summative	
7.NS 1. Apply and extend previous	Contexts and	Contexts and	Contexts and
understandings of addition and	Representations for	Representations for	Representations for
subtraction to rational numbers;	Adding and Subtracting	Adding and Subtracting	Adding and Subtracting
represent addition and subtraction	Integers	Integers	Integers
on a horizontal or vertical number	Lesson 2	Lesson 2	Lesson 2
line diagram.	Formative	Formative	Formative
b. Understand $p + q$ as the	, omative	, omative	, omative
number located a distance q			
from p, in the positive or negative direction depending	Contexts and	Contexts and	Contexts and
on whether <i>q</i> is positive or	Representations for	Representations for	Representations for
negative. Show that a number	Adding and Subtracting	Adding and Subtracting	Adding and Subtracting
and its opposite have a sum of	Rational Numbers	Rational Numbers	Rational Numbers
0 (are additive inverses).	Lesson 3	Lesson 3	Lesson 3
Interpret sums of rational	Summative	Summative	Summative
numbers by describing real-	Janimative	Jannilative	Janimative
world contexts <u>.</u> (PBA/MYA),			NASA Task
(EOY)			Lesson 3
			Summative
			Julilliative

7.NS 1. Apply and extend previous	Contexts and	Contexts and	Contexts and
understandings of addition and	Representations for	Representations for	Representations for
subtraction to add and subtract	Adding and Subtracting	Adding and Subtracting	Adding and Subtracting
rational numbers; represent	Integers	Integers	Integers
addition and subtraction on a	Lesson 2	Lesson 2	Lesson 2
horizontal or vertical number line	Formative	Formative	Formative
diagram.			
c. Understand subtraction of			
rational numbers as adding	Contexts and	Contexts and	Contexts and
additive inverse, $p - q = p + (-q)$.	Representations for		
Show that the distance	•	Representations for	Representations for
between two rational numbers	Adding and Subtracting	Adding and Subtracting	Adding and Subtracting
on the number line is the	Rational Numbers	Rational Numbers	Rational Numbers
absolute value of their	Lesson 3	Lesson 3	Lesson 3
difference, and apply this	Summative	Summative	Summative
principle in real-world			
contexts. (PBA/MYA), (EOY)		Salute	Problem Solving 1
		Lesson 2	Lesson 2
		Observation Checklist	Formative
		Formative	
		Integer Game	
		Lesson 2	
		Formative	
		ronnative	
7.NS 1. Apply and extend previous		Contexts and	
understandings of addition and		Representations for	
subtraction to add and subtract		Adding and Subtracting	
rational numbers; represent		Integers	
addition and subtraction on a		Lesson 2	
horizontal or vertical number line			
diagram.		Formative	
d. Apply properties of operations			
as strategies to add and			
subtract rational numbers.		Contexts and	
(PBA/MYA), (EOY)		Representations for	
		Adding and Subtracting	
		Rational Numbers	
		Lesson 3	
		Summative	
		Salute	
		Lesson 2	
		Observation Checklist	
		Formative	
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7.NS 2. Apply and extend previous	Contexts and	Salute	
understandings of multiplication and division and of fractions to	Representations for	Lesson 4	
	Multiplying and Dividing	Observation Checklist	
multiply and divide rational numbers.	Integers	Formative	
	Lesson 4		
a. <u>Understand that multiplication</u>	Formative		
is extended from fractions to			
rational numbers by requiring			
that operations continue to	Contexts and		
satisfy the properties of	Representations for		
operations, particularly the	•		
distributive property, leading	Multiplying and Dividing		
to products such as $(-1)(-1) = 1$	Rational Numbers		
and the rules for multiplying	Lesson 5		
signed numbers, interpret products of rational numbers	Summative		
by describing real-world			
,			
contexts. (PBA/MYA), (EOY) 7.NS 2. Apply and extend previous	Contexts and	Contexts and	Contexts and
understandings of multiplication			
and division and of fractions to	Representations for	Representations for	Representations for
multiply and divide rational	Multiplying and Dividing	Multiplying and Dividing	Multiplying and Dividing
numbers.	Integers	Integers	Integers
b. <u>Understand that integers can</u>	Lesson 4	Lesson 4	Lesson 4
be divided , provided that the	Formative	Formative	Formative
divisor is not zero, and every			
quotient of integers (with non-			
zero divisor) is a rational	Contexts and	Contexts and	Contexts and
number. If p and q are	Representations for	Representations for	Representations for
integers, then $-(p/1) = (-p/q =$	Multiplying and Dividing	Multiplying and Dividing	Multiplying and Dividing
p/(-q). Interpret quotients of	Rational Numbers	Rational Numbers	Rational Numbers
rational numbers by describing	Lesson 5	Lesson 5	Lesson 5
real-world contexts.	Summative	Summative	Summative
(PBA/MYA), (EOY)	Sammative	Salute	Sammative
		Lesson 4	Buchlaus Calvina 2
		Observation Checklist	Problem Solving 2
		Formative	Lesson 5
			Formative
7.NS 2. Apply and extend previous	Contexts and	Contexts and	
understandings of multiplication	Representations for	Representations for	
and division and of fractions to	Multiplying and Dividing	Multiplying and Dividing	
multiply and divide rational	Integers	Integers	
numbers.	Lesson 4	Lesson 4	
c. Apply properties of operations	Formative	Formative	
as strategies to multiply and			
divide rational numbers.			
(PBA/MYA), (EOY)	Contexts and	Contexts and	
	Representations for	Representations for	
	<u> </u>	I -	
	Multiplying and Dividing	Multiplying and Dividing	
	Rational Numbers	Rational Numbers	
	Lesson 5	Lesson 5	
1	Summative	Summative	

7.NS 2. Apply and extend previous	Rational Number Scoot	Rational Number Scoot	
understandings of multiplication	Lesson 5	Lesson 5	
and division and of fractions to	Formative	Formative	
multiply and divide rational	Observation Checklist	Observation Checklist	
numbers.	Observation Checklist	Observation Checklist	
c. 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.			
(PBA/MYA)			
7.NS 3. Solve real-world and	Contexts and		Problem Solving 1
mathematical problems involving	Representations for		Lesson 2
the four operations with rational	Adding and Subtracting		Formative
numbers. (PBA/MYA), (EOY)	Integers		
	Lesson 2		Problem Solving 2
	Formative		Lesson 5
			Formative
	Contexts and		Rational Number Task
	Representations for		Lesson 5
	Adding and Subtracting		Summative
	Rational Numbers		Observational checklist
	Lesson 3		Observational enceknist
	Summative		
	Sammative		
	Contexts and		
	Representations for		
	Multiplying and Dividing		
	Integers Lesson 4		
	Formative		
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	Contouts and		
	Contexts and		
	Representations for		
	Multiplying and Dividing		
	Rational Numbers		
	Lesson 5		
	Summative		