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To Create a World in which Children Love to Learn!



Management Guide





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Using Summer Scholars

How to Use This Resource

The *Summer Scholars Mathematics* curriculum has been designed to meet the needs of summer learning programs. Scaffolded lessons, mathematical discourse, and STEAM activities are presented in a flexible format to make learning (and teaching) fun and effective for everyone.

What's Included?

Teacher's Guide



The daily lessons enhance instruction with research-based mathematics instructional practices.

Student Guided Practice Book



This book encourages students' mathematical fluency with multiple opportunities to apply learning.

Management Guide



This guide helps teachers plan effectively with flexible lesson pacing and a scope and sequence designed specifically for varied summer settings.

12 Mathematical Discourse Task Cards



These cards provide rich problem-solving tasks for students to solve and discuss collaboratively. They are provided in both print and digital format.

Smithsonian STEAM Readers



These books and the included STEAM challenges foster content-area literacy and encourage students to collaboratively solve real-world problems.

Digital Resources



These resources increase student engagement and enhance instruction. Family Engagement Letters are provided for a strong school-home connection.

Classroom Library with 10 Books



These mathematics- and science-focused books inspire curiosity and a love of reading.

How to Use This Resource (cont.)

Scaffolded Mathematics Instruction

The student-centered Gradual Release of Responsibility model is embedded into each of the mathematics lessons. Within every two-day lesson, the responsibility shifts from the teacher (I Do) to the student (You Do).



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How to Use This Resource (cont.)

Mathematical Discourse Task Cards

The Mathematical Discourse Task Cards present rich math problems for students to solve and discuss collaboratively. The three mathematical discourse routines walk students through the problem-solving process.



How to Use This Resource (cont.)

STEAM Challenges

There are five STEAM Challenges included in each level of *Summer Scholars*. Each challenge is completed over five days to give students ample time to investigate, test, and retest their ideas. In addition to meeting specific criteria, students are also challenged to improve their work over the five days.



GUMMER Scholars **Mathematics Rising 3rd Grade Grade Level Details**

Rising 3rd Grade Scope and Sequence

	Mathematics Ski 60–65 minu	ills and Concepts utes per day	Problem-Solving 10–15 minu	g and Discourse utes per day	STE 45 minute	AM es per day
	Mathematics Focus	Standards	Mathematical Practice and Card Title	Standard	Challenge Title and STEAM Step	Standard
Day 1	Ones. Tens. and Hundreds	Understand that the digits of a three-digit number represent hundreds, tens, and	Think Using Quantities	Make sense of quantities and their relationships in	<i>Making Maps</i> Define the Problem	Make sense of problems and plan. solve. iustify.
Day 2		ones; and use standard and expanded forms to represent three-digit numbers.	"Place Value Game"	problems.	<i>Making Maps</i> Design	and evaluate solutions.
Day 3		Understand that the digits of a three-digit number represent	Construct and Critique	Use assumptions, definitions, and	<i>Making Maps</i> Build	Apply mathematics to
Day 4	Numbers to 1,000	hundreds, tens, and ones; and read and write numbers to 1,000 using standard and word form.	Arguments "Building with Blocks"	previously established results to construct arguments.	<i>Making Maps</i> Test and Improve	everyday life, society, and the workplace.
Day 5		Use place value to			<i>Making Maps</i> Reflect and Share	Make sense of problems and plan, solve, justify, and evaluate solutions.
Day 6	Comparing Numbers	compare three-digit numbers using symbols and comparative language.	Analyze the Structure "Saving Money"	Observe closely to discern a pattern or structure in a problem.	<i>Piece by Piece</i> Learn Content, Understand the Challenge, and Brainstorm	ldentify how an object made of pieces can be disassembled and made into a new object.
Day 7	Addina within 100	Use strategies to fluently	Think Using Quantities	Make sense of quantities and their relationships in	<i>Piece by Piece</i> Design and Build	Apply mathematics to solve problems arising in
Day 8		add within 100.	"Pamela's Pops"	problems.	<i>Piece by Piece</i> Test and Reflect	everyday life, society, and the workplace.

	Mathematics Sk 60–65 minu	ills and Concepts utes per day	Problem-Solvin, 10–15 minu	g and Discourse utes per day	STE 45 minute	AM es per day
	Mathematics Focus	Standards	Mathematical Practice and Card Title	Standard	Challenge Title and STEAM Step	Standard
Day 9	Subtracting within 100	Use strategies to fluently subtract within 100.	Think Using Quantities "Baceball Cards"	Make sense of quantities and their relationships in	<i>Piece by Piece</i> Redesign and Rebuild	Make sense of problems and plan, solve, justify,
Day 10				problems.	<i>Piece by Piece</i> Retest and Share	and evaluate solutions.
Day 11		Add within 1,000 using	Use Tools Strateoically	Consider and use	<i>Living in Sunlight</i> <i>Extremes</i> Define the Problem	Make sense of problems and plan, solve, justify, and evaluate solutions.
Day 12	Adding within 1,000	drawings, or other strategies.	"Aisha's Beads"	available tools when solving problems.	<i>Living in Sunlight</i> <i>Extremes</i> Design	Recognize and draw shapes having specified attributes.
Day 13		Subtract within 1,000 using concrete models,	Use Tools Strategically	Consider and use	<i>Living in Sunlight</i> <i>Extremes</i> Build and Test	Apply mathematics to solve problems arising in
Day 14		drawings, or other strategies.	"Donating Canned Goods"	available tools when solving problems.	Living in Sunlight Extremes Improve	everyday life, society, and the workplace.
Day 15					<i>Living in Sunlight</i> <i>Extremes</i> Reflect and Share	Make sense of problems and plan, solve, justify, and evaluate solutions.
Day 16	solving Iwo-step Word Problems: Same Operations	Add and subtract to solve two-step word problems within 100.	Think Using Quantities "Missing Recess"	make sense or quantities and their relationships in problems.	<i>Volcanoes</i> Learn Content, Understand the Challenge, and Brainstorm	Develop a model to represent the shapes and kinds of land and bodies of water in an area.

Rising 3rd Grade Scope and Sequence (cont.)

Grade Level Details

Rising 3rd Grade Scope and Sequence (cont.)

	Mathematics Ski 60–65 minu	lls and Concepts Ltes per day	Problem-Solving 10–15 minu	g and Discourse Ites per day	STE 45 minute	AM ss per day
	Mathematics Focus	Standards	Mathematical Practice and Card Title	Standard	Challenge Title and STEAM Step	Standard
Day 17	Bar Graphs	Use and interpret bar graphs to solve problems	Analyze the Structure	Observe closely to discern a nattern or	<i>Volcanoes</i> Design and Build	Apply mathematics to solve problems arising in
Day 18		involving addition and subtraction.	"Outside Fort"	structure in a problem.	<i>Volcanoes</i> Test and Reflect	everyday life, society, and the workplace.
Day 19	Measuring Length	Use appropriate tools to measure the lengths of objects in standard units. and describe the	Construct and Critique Arguments	Use assumptions, definitions, and previousIv established	<i>Volcanoes</i> Redesign and Rebuild	Make sense of problems and plan, solve, justify,
Day 20	0	relationship between the units and the sizes of the objects.	"Robert's Ruler"	results to construct arguments.	<i>Volcanoes</i> Retest and Share	and evaluate solutions.
Day 21		Tell and write time			<i>Dealing with Wildfires</i> Define the Problem	Make sense of problems and plan, solve, justify, and evaluate solutions.
Day 22	Telling Time	from analog and digital clocks to the nearest five minutes, using a.m. and p.m. appropriately.	Mathematize the Situation "Only Time Will Tell"	Apply mathematics to solve problems in everyday life.	Dealing with Wildfires Design	Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.
Day 23	Shapes and Their	Recognize and draw shapes based on their	Think Using Quantities	Make sense of quantities	<i>Dealing with Wildfires</i> Build and Test	Apply mathematics to solve problems arising in
Day 24	Attributes	defining attributes, such as the number of angles or equal sides.	"Guess Farrah's Shape"	and their relationships in problems.	Dealing with Wildfires Improve	everyday life, society, and the workplace.
Day 25	Culminating Activity				Dealing with Wildfires Reflect and Share	Make sense of problems and plan, solve, justify, and evaluate solutions.

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Rising 3rd Grade STEAM Challenges and Materials

This chart includes descriptions and needed materials for the five STEAM Challenges.

Challenge Name	Description	Materials
<i>Making Maps</i> (reader)	Teams create school maps for a new student.	 colored pencils crayons graph paper grid chart paper (two sheets per team) markers pencils
Piece by Piece	Students create building toys for kids to use.	 binder clips (10) cardboard tubes (10) clothespins (10) craft sticks (20) pipe cleaners (20)
Living in Sunlight Extremes (reader)	Teams build visors to block sunlight.	 cardboard pieces craft sticks glue paper towel tubes scissors straws string tape
Volcanoes	Students build party hats for a volcano- themed birthday party.	 construction paper (various colors) cotton balls (5–10) tissue paper (volcano colors; 1–2 of each) yarn and/or ribbon (volcano colors)
<i>Dealing with</i> <i>Wildfires</i> (reader)	Teams draw designs for the land around their homes that will keep them safe from wildfires.	 chart paper (two sheets per team) drawing materials

Rising 3rd Grade Classroom Library Information

This chart includes important information about the books included in the classroom library.

Book Title	Lexile® Measure	*Guided Reading Level	Summary
The British Museum: Classify, Sort, and Draw Shapes	540L	Р	Welcome to the British Museum! It is built for exploring. Look for hidden shapes in the museum and its treasures. Try to find them all as you learn more about this special place!
Earth and Moon	470L	J	Earth is always moving. The moon is always moving, too. It travels around Earth. The moon looks different each night because of its movement.
Blast Off to Camp: Time	610L	0	The countdown is on. Isabella is heading to Space Camp! It's only a week long, so she wants to make the most of her time. Blast off to camp, and find out what it takes to be an astronaut!
Fields, Rinks, and Courts: Partitioning Shapes	630L	0	Before the kickoff, jump ball, or coin toss of a game, the playing surface must be designed. After all, each sport has a surface with a purpose! Explore how partitioned shapes are important to the fields, rinks, and courts of popular sports.
Habitats	460L	Ν	A habitat gives shelter to plants and animals. It's a living thing's home. It also helps them survive. There are many different types of habitats on Earth.
How Sound Moves	500L	К	Sounds are all around us. Some are loud. Others are quiet. Some sounds are high. Others are low. The sounds that we hear travel as sound waves.
The Lemonade Stand: Financial Literacy	580L	Q	On a hot summer day, nothing tastes better than an ice-cold glass of lemonade. At least, that is what Juan and Rose think! But it is not all about sunshine and sugar. Juan and Rose need to learn more about starting a business. Will they make money or just make a mess?
Pollination	510L	Ν	Living things depend on one another. Insects, water, and wind help plants grow new plants. They have an important role in nature. They work together to keep one another alive.
Lasers: Measuring Length	550L	R	Lasers are brighter than the sun, strong enough to reach the moon, and sharp enough to cut tiny holes. Get laser- focused while you measure lengths. Find out what makes these bright beams light up.
Water Cycle	480L	0	Every living thing needs water to survive. Water is an important part of life. There is water all around us. It moves through the water cycle. It brings water to all parts of the planet.

*These titles have been officially leveled using the F&P Text Level Gradient™ Leveling System.



Teacher's Guide

Rising 3rd Grade

Days 3–4 Overview

Numbers to 1,000

Learning Outcome

• Read and write numbers to 1,000 using base ten numerals and number names.

Focus

The following lesson will address these focus questions: What is the difference between writing standard form numerals and number names? When can both forms be helpful? You may wish to write the focus guestions on the board or on chart paper and read them aloud to students.

Student Misconception

This lesson expands on students' previous knowledge of basic numbering skills through 100. It is common and incorrect for students to add the word and when reading and/or writing number names over 100. Watch and listen for this so clarification can be made. The word *and* is used to denote a decimal point, which is why the word is not correctly used within whole numbers.

Mathematical Discourse

Learning Outcome

• Work collaboratively to solve a problem.

Making Maps

Learning Outcomes

• Create and test a map of the school.

Materials

- Student Guided Practice Book (pages 16–27)
- Number Name Cards (numname.pdf)
- base-ten blocks
- chart paper
- construction paper
- markers
- tape

- **Materials per STEAM Group**
 - colored pencils
 - crayons

- graph paper
- grid chart paper (two sheets) pencils
- markers

Warm-Up 🎬 🗓

- Distribute base-ten blocks to students. Say, "Use your base-ten blocks to find two tens." Write 2 tens on the board or on chart paper. Ask, "What number name do we have for two tens?" (20) Write the number 20 and the word twenty next to 2 tens.
- 2. Repeat this process with three tens, writing *3 tens*, *30*, and *thirty*.
- Say, "With a partner, use your base-ten blocks to keep making numbers, counting by tens. Be ready to tell the class how many tens you used and the number name for your model."
- **4.** Elicit student responses, recording the number of tens, the standard form number, and the number name on the board or on chart paper.

Language and Vocabulary

1. Write the following vocabulary terms on the board or on chart paper:

number name

standard form

numeral

2. Say, "A numeral is a number written using digits. That is called standard form. Number names are how we say numbers using words."

- **3.** Say, "Let's play a game. You are going to give me a number up to 1,000. I will write the number name, the exact words you are saying. Then, you can write the digits of your number, or the standard form."
- **4.** On the board or on chart paper, go through several examples. Remember, you write the words (number name), and the student writes the standard form or numeral. The chart below serves as an example.

Standard Form	Number Name
3	three
17	seventeen
46	forty-six
50	fifty
94	ninety-four
237	two hundred thirty-seven
609	six hundred nine

- I Do 🗯 (15)
 - **1.** Create a three-column word wall on chart paper with these three headings:

numbers	numbers	numbers 30
1–20	21–29	or greater

- 2. Distribute copies of precut number name cards (available in the digital resources). These are printed with number names and a blank for the standard form numeral. Here is an example: *eleven*. Distribute two or three cards to each student until all are assigned. Say, "You have been given a number name in words with a blank in front of it. Read it to yourself, and write the standard form numeral in the blank. That is the number in digits. Check your answer with a partner. Then, tape your card to the poster in the correct column." You may wish to complete one card as a class example. Allow time for students to complete the task. As they are taping their notes to the chart paper, check for accuracy, and help to order the cards from least to greatest.
- 3. After the chart is completed, ask, "What patterns or similarities do you see?" Make sure students mention "-teen" suffixes, hyphens between tens and ones, and the use of the word *hundred*.

We Do (15)

- 1. Display What's in a Name? from page 16 of the Student Guided Practice Book. Say, "Look at the number 29."
- 2. Say, "We will use our chart to write the number name for 29. How many tens are there?" (two) "Since it's in the tens place, we have to say the number name for two tens. What is that?" (twenty) "If you are not sure how to spell the word, refer to the chart we made. Finally, we need to say and write the number from the ones place. (nine) Who remembers something else that I need to write but haven't yet? Here's a hint: It's not a number or letter." (the hyphen between twenty and nine) "You should have written twenty-nine on your activity sheet for Question 1." Write the number name on the board or on chart paper.
- 3. Say, "Look at Question 2. It has three digits: 2, 4, and 7. The 2 is in what place?" (hundreds) "So, the place value of the 2 means our number starts with the words two hundred." Give students time to write. "Now, read the last two digits, and write the number name for them. Watch your spelling by checking the chart. How do we say that number, with a 4 in the tens place and a 7 in the ones place?" (forty-seven) "Our number name is written as two hundred forty-seven." Write the number name on the board or on chart paper.
- **4.** Say, "Now, complete Question 3 on your own." Review the correct answer. (*two hundred seventy-four*)
- 5. Say, "The next section says to write the standard-form numeral for the number name. Sometimes, it helps to hear yourself say the number. Read Question 4 aloud, but in a whisper. Think about what that number would look like. You see the number name *five*. Write that digit." (5) "Next, it says

hundred. That word is telling us what the place value is for the five. Since we see hundred, how many digits will there be?" (three) "So the rest of the words will tell us the rest of the digits. It says sixty-one. What do those digits look like?" (a 6, then a 1: 61) The final answer should be the three digits together: 5, 6, and 1." Write the number on the board or on chart paper.

Support for Language Learners: Students who struggle to write the number in words would benefit from a word bank or chart, such as the one completed earlier in the lesson. Also, these students should be encouraged to read the numeral out loud before trying to write it in words.

You Do 🖁 🛄

- Have students complete Name That Number from page 17 of the Student Guided Practice Book. Remind students to look at the chart previously made in the lesson to help them with spelling and to identify patterns in naming numbers.
- 2. Have students share their number names. If students have difficulty explaining their reasoning, remind them to use the vocabulary terms.

Construct and Critique Arguments

Understand the Strategy

The Construct and Critique Arguments practice/ process stems from *construct viable arguments* and critique the reasoning of others. As this practice/process is introduced, it is important that students understand how to justify their thinking by providing evidence and respectfully critiguing someone else's thinking. While tasks in this practice offer opportunities for students to explain their work and show their reasoning, tasks have also been strategically built to allow them to critique someone else's thinking. Generally, students are accustomed to having to explain their own thinking, but rarely are they given the chance to explain someone else's thinking (correct or incorrect) or to evaluate someone else's work using kind and respectful words. This practice/ process is intended to support the development of these skills.

Procedure 🎬 🗓

- Display the Building with Blocks task card, and read aloud the text. Remind students to use the Understand and Plan, Share and Discuss, and Reflect and Write routines as they complete the task. Review these routines if needed. (See pages 21–26 in the Management Guide.)
- 2. Allow time for students to collaborate with partners as they follow the routines and work through the task from pages 18–19 of the *Student Guided Practice Book*. (Students will complete the extensions on the next day.)

Answer: Yes, they are both correct, since 46 can be made both ways. Explanations will vary.

Possible Misconception: Students may think that because 46 has the digit 4 in the tens place, there must be 4 tens. While the number 46 has the digit 4 in the tens place, it can be made up of different groupings of tens.

Language Support

- Tier 3: base-ten blocks, tens, ones
- Tier 1: correct

Scaffolding

Provide students with base-ten blocks, and ask them to make a smaller value than 46, such as 12. Then, ask them to make 24. Ask them what they notice about the different ways to make these numbers using the blocks.

Making Maps

Materials and Preparation

• Prepare all materials for the STEAM Challenge (colored pencils, crayons, graph paper, 2 sheets of grid chart paper, markers, pencils).

Read Aloud 🎬

- **1.** Review the information from the previous day's read aloud.
- 2. Read another section or a few pages of the *Making Maps* book for about five minutes. Pause periodically to discuss new information and any questions students may have.

Build 🗰 边

- 1. Have groups review their *Team Designs* activity sheets from the previous day. Explain that when students draw their maps, they must follow their design plans. Reassure them that they will have the opportunity to change and improve their designs after they present them. Review classroom expectations for working with materials. Then, give students time to create maps.
- 2. Display *Think about It* from page 20 of the *Student Guided Practice Book*. Explain that reflection is an important part of the engineering design process. Read aloud numbers 1 and 2 on the activity sheet, and have students write their responses. Ask volunteers to share. The rest of the activity sheet will be completed later.

Test 🗰 길

- Gather teams for testing. Explain that teams will offer feedback after the test. Use *Friendly Feedback* from page 21 of the *Student Guided Practice Book* to review best practices for giving feedback.
- 2. Have students use *Can You Find It? Test Results* from page 22 of the *Student Guided Practice Book* to record their results as a team. Allow time for teams to present their maps. For each map, ask volunteers from other teams to find an important place at your school on the map. A successful map will allow a user to locate specific spots or areas within the school quickly. Ask volunteers to give friendly feedback.
- 3. To further challenge students, ask this question: *How might color-coding on a map be helpful to a viewer?* Guide students to the idea that different colors for different areas or specific spots on a map might make it easier to read, understand, and follow.

Progress Monitoring 🖁 5

- Have students complete the Quick Check from page 23 of the Student Guided Practice Book to gauge their progress toward mastery of the learning objectives.
- 2. Based on the results of the *Quick Check* and your observations during the lesson, identify students who may benefit from additional instruction in the learning outcomes. These students should be placed into a small group for reteaching.

Rotations 🕯 🎬 🗓

Place students in two groups. Work with one group on the Refocus activity while the other group is completing the Practice activity. Rotate after 15 minutes. Work with the second group on the Extend activity while the first group completes the Practice activity.

Refocus 🎬

- 1. Tell students they are going on a "matching scavenger hunt." (A Refocus presentation is provided in the digital resources for this activity.) Give each student a list of 10 numbers in standard form. Have the word names of these numbers written on construction paper, displayed around the room, and identified by a letter. Encourage each student to read aloud the number on their paper and find the word name posted in the classroom. Once students find the word names that match, they write the identifying letters so the matches can be checked. Review all answers once students have had time to circulate and find the matches.
- 2. Assign one of the numbers to each student. Their task is to build their number using base-ten blocks, display it to the group, and explain why the number's name matches the model.
- **3.** Support students as they complete Question 1 on *Refocus* from page 24 of the *Student Guided Practice Book.*

Extend 🎬

- 1. Have students write 5,342 in word form.
- **2.** Support students as they complete the *Extend Learning Task* from page 25 of the *Student Guided Practice Book.*

Practice ရှိ

- **Refocus Group Practice:** Have students solve question 2 on *Refocus* from page 24 of the *Student Guided Practice Book* to reinforce their learning.
- Extension Group Practice: Have students complete Independent Practice from page 26 of the Student Guided Practice Book to reinforce their learning.

Math in the Real World

CCCC CCC (25)

- Display Math in the Real World: Cracking the Code from page 27 of the Student Guided Practice Book. Have a student read the task aloud. Tell students to explain or summarize the task to their partners. Have a few students share their summaries.
- 2. Ask students to think about what information they will need to solve the task and what the task is asking them to do. Then, have them share with partners. Ask a few students to share aloud. Have students work in groups of two or three to complete the task.
- **3.** As students are working, circulate and ask focusing, assessing, and advancing questions:
 - What information do you know? What are you trying to find out?
 - How many numbers are in the combination? How many digits are in each number?
 - In what form are the numbers written in the problem?
 - Where do hyphens usually go? Between which place values?
 - How can you decide where one threedigit number ends and the next begins?
 - Can the vocabulary chart we made earlier help you to write the number words in standard form?

Support for Language Learners:

- I put _____ between the tens number and the ones number.
- I put _____ before the next hundreds number.
- **4.** Observe how students are solving the task, and choose a few groups who solved the task in different ways to share their solutions and reasoning. Try to have the solutions move from concrete representations to more abstract representations. Make sure students explain their reasoning as they share solutions.
- **5.** As groups are sharing their solution paths, reasoning, and strategies, ask questions:
 - Who can explain _____'s idea another way?
 - Is there another way to solve the problem?
 - How is this solution similar to _____'s solution?

Mathematical Discourse

Construct and Critique Arguments

Mathematical Discourse Card Extensions 🛱 📆

- **1.** Allow time for students to complete the routines for the *Building with Blocks* task from the previous day.
- **2.** Have students work in pairs to complete the extensions.
 - Make 51 using base-ten blocks. How many different ways can you make 51? (6 ways)
 - How many ways can you make 105 using base-ten blocks? (*12 ways*)

STEAM Challenge

Making Maps

Materials and Preparation

- Review all designs.
- Prepare all materials for the STEAM Challenge (colored pencils, crayons, graph paper, 2 sheets of grid chart paper, markers, pencils).

Read Aloud 🚟

- **1.** Review the information from the previous day's read aloud.
- 2. Read another section or a few pages of the *Making Maps* book for about five minutes. Pause periodically to discuss new information and any questions students may have.

Improve 🎬 🧓

- 1. Have groups review the feedback they received on the previous day of instruction.
- 2. Provide time for teams to brainstorm ways to improve their designs based on test results and feedback. Refer students back to their *Team Designs* activity sheets. Ask them to sketch their improved designs and explain any changes.
 - Challenge successful teams with additional constraints or criteria for the second design (e.g., create a 3D map of the school, create a digital version of the map).
- **3.** Have students gather materials to improve their designs. Then, have them make their improvements and present their maps again. Remind students that a successful map will allow a user to locate specific spots or areas within the school quickly.
- **4.** Have students complete numbers 3 and 4 on *Think about It* from page 20 of the *Student Guided Practice Book.*

Student Guided Practice Book

Rising 3rd Grade

Na	me:
----	-----

What's in a Name?

Directions: Write the number names or standard numeral.

Write the number name for each standard numeral.

1	29
2	247
3	274

Write the standard numeral for the number name.

4 five hundred sixty-one _____

16

N	am	e:
---	----	----

Name That Number

Directions: Write the number names or standard numerals.

Write the number name for each standard numeral.
1 395
2 938
3 651
Write the standard numeral for each number name.
4 seven hundred ninety-six
5 eight hundred eighteen
6 one hundred eighty-three

Sara says, "3 tens and 16 ones equal 46."

George says, "2 tens and 26 ones equal 46."

Are they both correct? Explain your thinking.

Construct and Critique Arguments

Reflect and Write			
Student 1: "How did we prove that our answers are correct?"			
Student 2: Respond.			
Student 2: "Do we agree or disagree with each other's problem-solving process?"			
Student 1: Respond.			
Both reflect: "How did we construct and critique arguments?	"		
Both write (select one):			
	- 77 -		
We constructed arguments by			
Or			
We critiqued arguments by			
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)			
\checkmark			

Nam	e: Date:
I.	Think about It It was (hard/easy) to create one team design because
2.	 I helped my team by
3.	Our design (failed/passed) the test because
	To improve our design, we
4.	Our improved design (worked/did not work). I know this because
5.	During this challenge, I learned
	 My favorite part was
	Nam I. 2. 3.

20

Name:	
-------	--

Date:

Friendly Feedback

Directions: Feedback from others can help people improve their work. Use these sentence stems to give feedback to your peers.

	Clarify	
	Can you explain	_?
	Why did you choose to	_?
	How did you	_?
W	arm Feedback	
I like be	ecause	
It is interesting tha	ıt	
is a goo	od idea because	
	Cool Feedback	
	Have you thought about	?
	I wonder if	·
	You might want to try	

Can You Find It? Test Results

Directions: Check boxes to tell whether the maps met the constraints and criteria. Rate how clear and easy-to-use each map is on a scale of 3 to 1. Then, answer the question.

Team	Constraints and Criteria	Rating 3 = Very clear 2 = Kind of clear 1 = Not clear at all
	 drawn from a bird's-eye view colorful has a legend and a compass rose 	
	 drawn from a bird's-eye view colorful has a legend and a compass rose 	
	 drawn from a bird's-eye view colorful has a legend and a compass rose 	
	 drawn from a bird's-eye view colorful has a legend and a compass rose 	
	 drawn from a bird's-eye view colorful has a legend and a compass rose 	
	 drawn from a bird's-eye view colorful has a legend and a compass rose 	

Which map is easiest to follow? Why?

Name: Quick	Date:		
Directions: Solve.			
Choose the number name that m	atches each standard numeral.		
1 926	A nine hundred sixty		
2 962	B nine hundred twenty-six		
3 960	C nine hundred sixteen		
4 916	D nine hundred sixty-two		
Write the name for the base-ten pictures, using standard form numerals and the number name in words.			

Day 4

Refocus Directions: Solvo			
ber.			

Day 4

Extend Learning Task

Directions: Fill in the chart.

Place Value	Standard Form	Number Name
3 tens, 6 ones		
	82	
		one hundred seventy-seven
9 hundreds		
1 ten, 5 ones		
	541	
		two hundred twelve
		six hundred seventeen

Create your own place value description. Then, write the standard form and number name.

Independent Practice

Directions: Write the number names and/or standard numerals.

Write the number name in words. Remember: Write it like you say it, and use the vocabulary chart to help you with spelling.

1	485 _	
2	652	

Using the base-ten picture, write the standard numeral and the number name in words.

3				
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