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## Summer Scholars Mathematics Rising 3rd Grade

This sample includes the following:
Management Guide pages

- Cover and Table of Contents (3 pages)
- How to Use This Resource pages (4 pages)
- Grade Level Details pages (6 pages)

Teacher's Guide Pages

- Cover (1 page)
- Days 3-4 Overview (1 page)
- Day 3 Lesson (5 pages)
- Day 2 Lesson (3 pages)

Student Guided Practice Book Pages

- Cover (1 page)
- Day 1 Student Pages (7 pages)
- Day 2 Student Pages (5 pages)


## sumer <br> Scholars

Mathematics

## Management Guide



## Table of Contents

Welcome Letter ..... 5
Overview .....  6
Effective Mathematics Intervention ..... 6
Effective Mathematics Instruction for All Learners .....  7
Using Concrete Models .....  8
Concrete-Representational-Abstract Instructional Sequence ..... 9
Math Fluency ..... 10
Developing Mathematical Problem-Solving Skills ..... 11
Why Teach Problem-Solving? ..... 11
Making Connections ..... 11
Problem-Solving Framework ..... 11
Problem-Solving in Summer Scholars ..... 13
Mathematical Practices/Processes ..... 14
Promoting Mathematical Discourse in the Classroom ..... 15
About the Routines ..... 16
Understand and Plan Routine ..... 16
Share and Discuss Routine ..... 17
Reflect and Write Routine ..... 17
Implementing the Routines ..... 18
How to Introduce the Routines ..... 18
Debriefing a Lesson ..... 20
Introduction to STEAM Education ..... 27
The Importance of STEAM Education ..... 27
Defining STEAM ..... 27
The Engineering Design Process ..... 29
How to Facilitate Successful STEAM Challenges ..... 30
Differentiation ..... 32
Below-Level Support ..... 32
Language Learner Support ..... 32
Extend Learning ..... 32
Using Summer Scholars ..... 33
How to Use This Resource ..... 33
What's Included? ..... 33
Scaffolded Mathematics Instruction ..... 34
Mathematical Discourse Task Cards ..... 35
STEAM Challenges ..... 36
Classroom Library ..... 37
Assessment ..... 38
Digital Assessment in Summer Scholars ..... 38

## Table of Contents (cont)

Technology ..... 39
Digital Math Fluency Games . ..... 39
Interactive Ebooks. ..... 40
Audio Recordings ..... 41
Additional Digital Resources ..... 41
Planning Your Summer School Program ..... 42
Pacing Plan Overview ..... 42
Grade Level Details Overview. ..... 43
Grade Level Details ..... 45
Rising 1st Grade ..... 45
Scope and Sequence. ..... 46
STEAM Challenges and Materials ..... 49
Classroom Library Information. ..... 50
Rising 2nd Grade ..... 51
Scope and Sequence. ..... 52
STEAM Challenges and Materials ..... 55
Classroom Library Information. ..... 56
Rising 3rd Grade ..... 57
Scope and Sequence. ..... 58
STEAM Challenges and Materials ..... 61
Classroom Library Information. ..... 62
Rising 4th Grade ..... 63
Scope and Sequence ..... 64
STEAM Challenges and Materials ..... 67
Classroom Library Information. ..... 68
Rising 5th Grade ..... 69
Scope and Sequence. ..... 70
STEAM Challenges and Materials ..... 73
Classroom Library Information. ..... 74
Rising 6th Grade ..... 77
Scope and Sequence. ..... 78
STEAM Challenges and Materials ..... 81
Classroom Library Information. ..... 83
References Cited ..... 85
Accessing Digital Assessments ..... 87
English Resources ..... 87
Spanish Resources ..... 87
Digital Resources. ..... 88
Accessing the Digital Resources ..... 88
Contents of the Digital Resources ..... 88

## 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.


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).


## 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.


Cards are reproduced in the Student Guided Practice Book for individual use.

## How to Use This Resource ${ }_{\text {(cont) }}$

## 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.



Rising 3rd Grade Grade Level Details

## Rising 3rd Grade Scope and Sequence

|  |  |  |  |  |  |  |  |  |  |
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## Rising 3rd Grade Scope and Sequence (cont)

|  | Mathematics Skills and Concepts 60-65 minutes per day |  | Problem-Solving and Discourse 10-15 minutes per day |  | STEAM <br> 45 minutes 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 "Baseball Cards" | Make sense of quantities and their relationships in problems. | Piece by Piece <br> Redesign and Rebuild | Make sense of problems and plan, solve, justify, and evaluate solutions. |
| Day 10 |  |  |  |  | Piece by Piece <br> Retest and Share |  |
| Day 11 | Adding within 1,000 | Add within 1,000 using concrete models, drawings, or other strategies. | Use Tools Strategically "Aisha's Beads" | Consider and use available tools when solving problems. | Living in Sunlight Extremes Define the Problem | Make sense of problems and plan, solve, justify, and evaluate solutions. |
| Day 12 |  |  |  |  | Living in Sunlight Extremes Design | Recognize and draw shapes having specified attributes. |
| Day 13 | Subtracting within 1,000 | Subtract within 1,000 using concrete models, drawings, or other strategies. | Use Tools Strategically "Donating Canned Goods" | Consider and use available tools when solving problems. | Living in Sunlight Extremes Build and Test | Apply mathematics to solve problems arising in everyday life, society, and the workplace. |
| Day 14 |  |  |  |  | Living in Sunlight Extremes Improve |  |
| Day 15 | Solving Two-Step Word Problems: Same Operations | Add and subtract to solve two-step word problems within 100. | Think Using Quantities "Missing Recess" | Make sense of quantities and their relationships in problems. | Living in Sunlight Extremes Reflect and Share | Make sense of problems and plan, solve, justify, and evaluate solutions. |
| Day 16 |  |  |  |  | Volcanoes <br> 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)

|  | Mathematics Skills and Concepts 60-65 minutes per day |  | Problem-Solving and Discourse 10-15 minutes per day |  | STEAM <br> 45 minutes 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 involving addition and subtraction. | Analyze the Structure "Outside Fort" | Observe closely to discern a pattern or structure in a problem. | Volcanoes <br> Design and Build | Apply mathematics to solve problems arising in everyday life, society, and the workplace. |
| Day 18 |  |  |  |  | Volcanoes <br> Test and Reflect |  |
| Day 19 | Measuring Length | Use appropriate tools to measure the lengths of objects in standard units, and describe the relationship between the units and the sizes of the objects. | Construct and Critique Arguments "Robert's Ruler" | Use assumptions, definitions, and previously established results to construct arguments. | Volcanoes <br> Redesign and Rebuild | Make sense of problems and plan, solve, justify, and evaluate solutions. |
| Day 20 |  |  |  |  | Volcanoes Retest and Share |  |
| Day 21 | Telling Time | Tell and write 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 Define the Problem | Make sense of problems and plan, solve, justify, and evaluate solutions. |
| Day 22 |  |  |  |  | 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 Attributes | Recognize and draw shapes based on their defining attributes, such as the number of angles or equal sides. | Think Using Quantities "Guess Farrah's Shape" | Make sense of quantities and their relationships in problems. | Dealing with Wildfires <br> Build and Test | Apply mathematics to solve problems arising in everyday life, society, and the workplace. |
| Day 24 |  |  |  |  | Dealing with Wildfires Improve |  |
| Day 25 | Culminating Activity |  |  |  | Dealing with Wildfires Reflect and Share | Make sense of problems and plan, solve, justify, and evaluate solutions. |

## Rising 3rd Grade STEAM Challenges and Materials

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

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

## Rising 3rd Grade Classroom Library Information

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

| Book Title | Lexile ${ }^{\bullet}$ Measure | *Guided Reading Level | Summary |
| :---: | :---: | :---: | :---: |
| The British Museum: Classify, Sort, and Draw Shapes | 540L | P | 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 | N | 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 | K | 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 | N | 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 laserfocused 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. |

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# SUMMER <br> Scholars <br> Mathematics 

## 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 questions 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.


## Maling Maps

## Learning Outcomes

- Create and test a map of the school.


## Materials

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


## Materials per STEAM Group

- chart paper
- tape
- construction paper
- graph paper
- markers
- grid chart paper (two sheets)
- pencils
- colored pencils
- crayons


## Day 3

## Three-Digit Numbers

## Numbers to 1,000

## Warm-Up <br> 여웅

1. 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.
3. 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

## 눈․․․․ (10)

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 <br> Form | Number Name |
| :--- | :--- |
| 3 | three |
| 17 | seventeen |
| 46 | forty-six |
| 50 | fifty |
| 94 | ninety-four |
| 237 | two hundred thirty-seven |
| 609 | six hundred nine |

## Numbers to 1,000

IDO

1. Create a three-column word wall on chart paper with these three headings:

| numbers <br> $1-20$ | numbers <br> $21-29$ | numbers 30 <br> 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: $\qquad$ 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.

# Numbers to 1,000 

 We Do ${ }^{(2)}$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

## 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 critiquing 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.

## 

1. 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.

## Day 3

## STEAM Challenge

## 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 <br> ) <br> $\begin{array}{r}5 \\ 5 \\ \hline\end{array}$

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

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.

## Numbers to 1,000

## Progress Monitoring

1. 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.

## 

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 $\stackrel{00}{ }$

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

 $\stackrel{\circ}{\mathrm{O}} \mathrm{H} \mathrm{O}$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 운

- 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.


## Day 4

## Three-Digit Numbers

## Numbers to 1,000

## Math in the Real World

## ㅇooo

1. 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 $\qquad$ between the tens number and the ones number.
- I put $\qquad$ 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 $\qquad$ 's idea another way?
- Is there another way to solve the problem?
- How is this solution similar to $\qquad$ 's solution?


# Construct and Critique Arguments <br> Mathematical Discourse Card Extensions踰 

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)


## 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.
3. Have groups review the feedback they received on the previous day of instruction.
4. 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.

# SUMMER Scholars Mathematics 

# Student gujded Practice Book 

## Rising 3rdi Grade

Name: $\qquad$
$\qquad$

## 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
$\qquad$
(3) 274

Write the standard numeral for the number name.
(4) five hundred sixty-one $\qquad$

Name: $\qquad$
$\qquad$

## 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 $\qquad$
(5) eight hundred eighteen $\qquad$
(6) one hundred eighty-three $\qquad$
$\qquad$
$\qquad$

## Building with Blocks



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.

## Extend <br> your <br> thinking! <br> Make 51 using base-ten blocks. How many different ways can you make 51?

How many ways can you make 105 using base-ten blocks?

Name: $\qquad$ Date: $\qquad$

## 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):

We constructed arguments by $\qquad$
$\qquad$
$\qquad$
$\qquad$

We critiqued arguments by $\qquad$
$\qquad$


Name: $\qquad$
I. It was (hard/easy) to create one team design because $\qquad$
$\qquad$
$\qquad$ .
2. I helped my team by $\qquad$
$\qquad$ .
3. Our design (failed/passed) the test because $\qquad$
$\qquad$ .

To improve our design, we $\qquad$
$\qquad$ .
4. Our improved design (worked/did not work). I know this because $\qquad$
$\qquad$ .
5. During this challenge, I learned $\qquad$
$\qquad$ .

My favorite part was $\qquad$

Name: $\qquad$ Date: $\qquad$

## Friendly Feedback

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


Name: $\qquad$

## 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 <br> 3 = Very clear <br> 2 = Kind of clear <br> $1=$ 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: $\qquad$ Date: $\qquad$

## Quick / Check

Directions: Solve.

Choose the number name that matches each standard numeral.
(1) 926 $\qquad$ A nine hundred sixty
(2) 962 $\qquad$ B nine hundred twenty-six
(3) 960 $\qquad$ C nine hundred sixteen
(4) 916 $\qquad$ D nine hundred sixty-two

Write the name for the base-ten pictures, using standard form numerals and the number name in words.

5




$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Refocus

Directions: Solve.
(1) Draw lines to match the standard form numerals with their number.
four hundred nine
forty-nine
four hundred ninety
(2) Write the standard form.

|  | T |  |  |  | - |  |  |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |




Name: $\qquad$
$\qquad$

## Extend Learning Task

Directions: Fill in the chart.

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

Name: $\qquad$
$\qquad$

## 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 $\qquad$
(2) 652 $\qquad$
$\qquad$

Using the base-ten picture, write the standard numeral and the number name in words.
3





$\qquad$
$\qquad$

## Math in the

## val worit Cracking the Code

Can you guess the combination in digits for a bike lock? The combination is three numbers, and each number has three digits. Use the clue written in the words of the three numbers.

Clue: eight hundred seventy six, five hundred fourteen,
 three hundred two
Hint: It would help to put the hyphens and commas where they belong!

## Unpack the ProbIem

## Make a Plan

## Solution

Look Back and Explain


[^0]:    *These titles have been officially leveled using the F\&P Text Level Gradient ${ }^{\text {TM }}$ Leveling System.

