WATCHER

Sampler

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ABOUT THIS COURSE

COURSE DESCRIPTION

In this course, students will learn concrete and abstract math concepts presented in engaging and visually appealing lessons. The software makes learning math fun and easy by using audio, colorful computer animated visuals, and text. It provides ample opportunity to learn using as many real-life situations as possible and problem solving with step-by-step solutions. The program includes computerized lessons with automated graded interactive quizzes and printable worksheets and exams.

GRADING

Assessments for the math course include 14 chapter exams.

ALTERNATIVE ASSESSMENTS

Students may also complete the alternative assessments for each chapter located in the instructor guide. A math project rubric is available to score the alternative assessment projects. In its simplest form, a performance-based assessment is one that requires students to demonstrate that they have mastered specific skills and competencies by performing or producing something. The alternative assessments for this course allow the student to combine math and art skills. The arts include many forms of creative expression. Visual arts include drawing, painting, ceramics, and sculpting. Media arts include photography and cinematography. Literature includes poetry, books, and short stories. Culinary arts include baking and chocolatiering. Performing arts include music, dance, and theatre. The student will have many opportunities to complete creative projects.

THE LEARNER - THE WATCHER

For visual learners, information is retained more successfully by seeing. Helpful hints for promoting learning opportunities that align with this learning style are presented throughout the guide.

WHO: They are learners who need to see, observe, record and write.

WHAT: They need to see what they are learning and can often demonstrate their understanding of the material by creating something visual of their own.

WHERE: They learn best in a blended learning environment with online and visually appealing materials.

WHEN: They like to have step-by-step directions to physically check off.

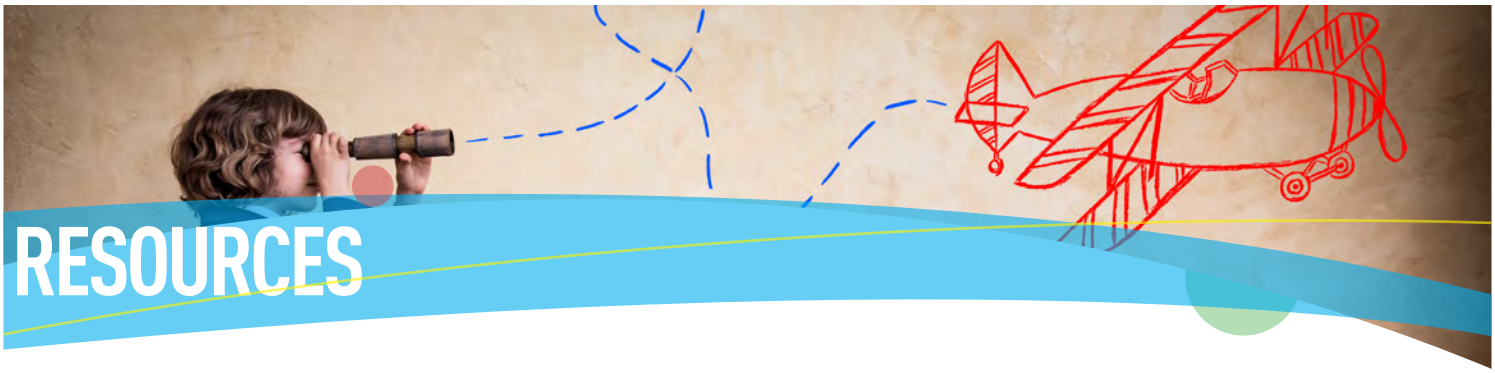
HOW: They learn through observation and visualization.

RESOURCE LIST

- Interactive Math Online Access
- Printable Worksheets and Assessments
- Alternative Assessments
- Elephango Resources
- Suggested Reading
- Suggested Pacing and **EXPLORE MORE** Activities

RESOURCES

The resources can be found throughout the instructor guide to supplement the course and help the student gain a deeper understanding of the content as well as provide variety in learning styles and expressions. Required and recommended extension activities are indicated in the suggested pacing of the instructor guide. Helpful references are also included for the course instructor.



RESOURCES

11680 Counting to 100

10045 Counting by 10s to 100

11699 Adding and Subtracting Zero

10038 Comparing Numbers Using Less Than, Greater Than, and the Same

11815 Know Your Signs (Addition and Subtraction)

11613 Adding to Five

11614 Addition Strategies (Drawing Pictures)

10044 Adding with Arrays

11617 Addition Strategies (Counting On)

11616 Addition Strategies (Number Lines)

10077 Subtraction with Pictures 1

10079 Subtraction with Pictures 2

10039 Subtraction with Single-Digit Numbers

10735 Graph It!

10564 Calendar Skills

11652 Days of the Week

10065 Comparing Objects by Length

10067 Measuring the Length of an Object

10511 Weather Tool - Thermometer

11080 Identifying Polygons

10745 Change My Direction

10252 Create and Describe Patterns 1

10618 What Does Equal Mean?

11680

10045


10079


11699


10038


10044

11611


10077


10039


10735

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RECOMMENDED READING

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Day 1

On the Launch Pad: A Counting Book About Rockets by Michael Dahl
Skip Counting with Meerkats by Tracey Steffora
Curious George Learns to Count from 1 to 100 by H.A. Rey

Day 17

Even Steven and Odd Todd, Level 3 by Kathryn Cristaldi
Place Value by David A. Adler
A Place for Zero by Angela Sparagna Lopresti

Day 29

Just Enough Carrots by Stuart J. Murphy
Comparing with Cats by Tracey Steffora
Balancing Bears: Comparing Numbers by Megan Atwood

Day 45

The Mission of Addition by Brian P. Cleary
Mission: Addition by Loreen Leedy
If You Were a Plus Sign by Trisha Speed Shaskan

Day 58

Domino Addition by Lynette Long
Animals on Board by Stuart J. Murphy
Addition Annie by David Gisler

Day 66

Subtraction Action by Loreen Leedy
If You Were a Minus Sign by Trisha Speed Shaskan
The Action of Subtraction by Brian P. Cleary

Day 80

Elevator Magic by Stuart J. Murphy
The Shark Swimathon by Stuart J. Murphy
How Many Blue Birds Flew Away?: A Counting Book with a Difference by Paul Giganti

Day 88

A Fraction's Goal-Part of a Whole by Brian P. Cleary
Fraction Fun by David A. Adler
Full House: An Invitation to Fractions by Dayle Ann Dodds

Day 97

The Great Graph Contest by Loreen Leedy
Family Reunion by Bonnie Bader
Giraffe Graphs by Melissa Stewart

Day 106

A Second, a Minute, a Week with Days in It by Brian P. Cleary
Measuring Time with a Calendar by Darice Bailer
How Do You Measure Time? by Thomas K. and Heather Adamson

Day 121

Money Madness by David A. Adler
The Coin Counting Book by Rozanne Lanczak Williams
A Dollar, a Penny, How Much and How Many? by Brian P. Cleary

Day 129

How Long or How Wide?: A Measuring Guide by Brian P. Cleary
Measuring Penny by Loreen Leedy
Millions to Measure by David M. Schwartz

Day 140

Mummy Math: An Adventure in Geometry by Cindy Neuschwander
If You Were a Quadrilateral by Molly Blaisdell
Captain Invincible and the Space Shapes by Stuart J. Murphy

Day 151

I See a Pattern Here by Bruce Goldstone
Mystery Math: A First Book of Algebra by David A. Adler
Equal Shmequal by Virginia Kroll

Bonus Day

EXPLORE IT!

Write the numbers from 0 to 100. Write the odd numbers in one color and the even numbers in another color.

WHAT DO I KNOW?

WHAT DO I NEED TO FIND OUT?

WHAT OPERATION OR STRATEGY WILL I USE?

SOLVE IT!

ANSWER

Day 25

Math for WATCHERS

TODAY'S ACTIVITIES

View Multimedia Lesson 2.6 The Role of Zero.

EXPLORE MORE

Explore Elephango for an activity to learn more about zero.

- 11699 Adding and Subtracting Zero

Complete the **Interactive Q&A** for more review if necessary.

Complete the worksheet for Chapter 2.6 The Role of Zero.

SUPPORT

WATCHERS may enjoy completing a flow chart showing the role of zero in an addition equation and a subtraction equation.

The suggested Elephango resource is a great visual lesson opportunity for your **WATCHER**.

ADDITION

SUBTRACTION

Day 51

Math for WATCHERS

TODAY'S ACTIVITIES

View Multimedia Lesson 4.7 Associative Property of Addition.

EXPLORE MORE

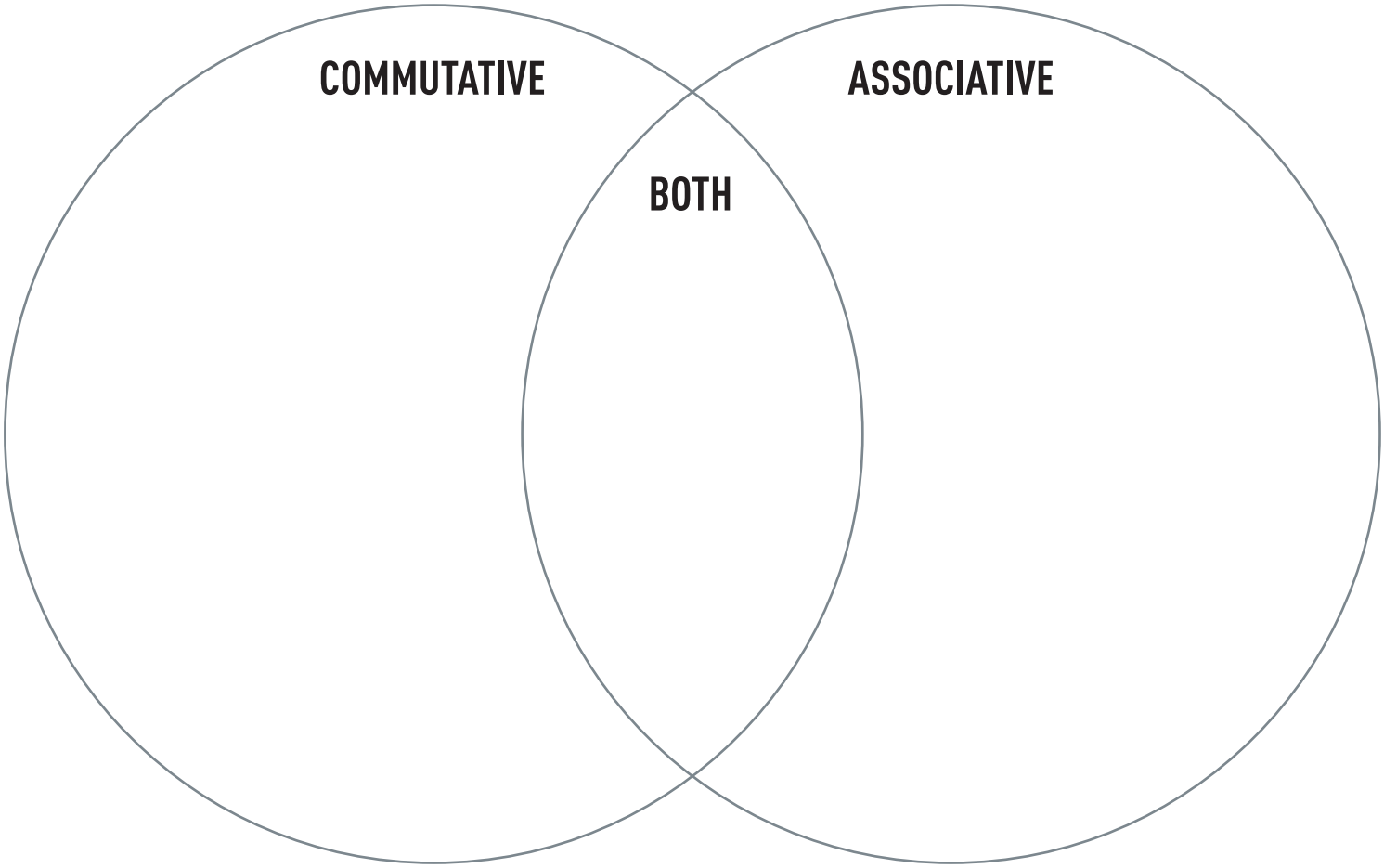
Complete the **Interactive Q&A** for more review if necessary.

Complete the worksheet for Chapter 4.7 Associative Property of Addition.

Compare and contrast the commutative property of addition and the associative property of addition.

SUPPORT

WATCHERS may enjoy highlighting the differences and similarities between the associative and commutative properties of addition using the Venn diagram below.



The Big Orange Splot

by Daniel Manus Pinkwater

Learn It!

In *The Big Orange Splot*, a conflict led to a lot of change. Stop and think! Why do you think this happened? Look back in the story and find the point in the story when things began to change. What was the conflict in the story. What change occurred? Did you relate to the story? Remember that reading fiction can be a way to discover something about yourself.

Practice It!

After rereading this story, it is time to identify the moral of the story. Here are some questions to help you throughout this process:

- What conflict happened?
- What change occurred?
- How did the characters feel throughout the story?
- What did you think about after reading the story?
- Did you learn something?

Discuss the answers to the questions with your instructor. This will help you identify the moral of the story.

Connect It!

Everyone on Mr. Plumbean's street eventually changed their houses to match their desires and dreams. Now it is your turn!

Take a large sheet of blank white paper and create an artistic representation of what your house would look like if it matched your hopes and dreams.

You may want to take some time to think about a few things:

- What do you want to be when you grow up?
- Is there a place in the world where you would love to travel?
- What does your dream house look like?

These questions should help you reflect before you begin your piece of art. Have fun and be creative!

Explore It!

Explore Elephango for an activity to extend your learning.

- 10624 How Homes Have Changed

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Write About It!

For this activity, you will practice descriptive writing. Take the piece of art you completed in the **Connect It!** section and describe it. Begin by brainstorming words that describe your work of art. Make sure to include as much detail as possible. The goal is to allow your reader to imagine what your art work looks like without actually seeing it. Use the graphic organizer on the next page for your descriptive writing.

WATCHERS may like to create a bubble map of some descriptive words for the art before beginning the assignment for the **Write About It!** section.

Materials for the Activities

- Pencil
- Lined paper
- Drawing paper
- Desired art supplies (colored pencils, crayons, markers, etc.)

Suggested Pacing

Activity 1

Review the enduring understanding, essential question(s), reading skill, writing skill, and vocabulary for the book. Take a picture walk through the book.

Activity 2

Study the **Learn It!** section and read the book. Practice the vocabulary.

Activity 3

Reread the book and complete the **Practice It!** section. Continue practicing vocabulary.

Activity 4

Complete the **Explore It!** section.

Activity 5

Complete the **Connect It!** section.

Activity 6

Complete the **Write About It!** section.

Enduring Understanding

Reading fiction can be a means of self-discovery.

Essential Question(s)

How does conflict lead to change?

Reading Skill

Identify the moral of the story.

Writing Skill

Descriptive writing

Vocabulary

- splot
- muttering
- baobabs
- lumber

Ways to Practice Vocabulary

- Act out the word.
- Give 3 synonyms for the word.
- Draw a picture for the word.
- Write a meaningful sentence.
- Explain the word to a friend.

Graphic Organizer

VISUAL IMAGES
What does it look like?

ONOMATOPOEIA
What does it sound like?

PERSONIFICATION
Try giving it human qualities.

SIMILE OR METAPHOR
Compare it creatively!

POETRY BRAINSTORM

ALLITERATION
Try repeating beginning sounds.

SENSORY IMAGES
What does it feel or smell like?

FEELINGS AND EMOTIONS
How do you feel about it?

QUESTIONS
What do you wonder about it?

Day 11

ELA for WATCHERS

TODAY'S ACTIVITIES

Begin a personal word dictionary. Read Checking Your Spelling on pages 276-283 of *Write Away: A Handbook for Young Writers and Learners* for words that can help start your dictionary. Be sure to add words as needed.

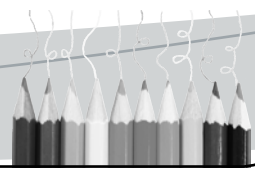
EXPLORE MORE

Create the cover for your personal word dictionary. Be creative! Use the space below for a rough draft of your cover.

SUPPORT

Discuss the importance of keeping a word dictionary handy. Not only does the dictionary help your student to spell words correctly while writing, it also helps your student expand his or her knowledge and vocabulary. It is an easy and fun way to learn more words.

WATCHERS may enjoy illustrating the meaning of each word.



Day 25

ELA for WATCHERS

TODAY'S ACTIVITIES

Complete Comma Between a City and a State on pages 17-18 of *Write Away SkillsBook*.

EXPLORE MORE

Explore Elephango for an activity to extend your learning.

- 10085 Write a City and State

Practice writing out addresses. With the help of an adult if needed, write out a total of 5 addresses. Make sure to pay attention to where the comma goes between a city and a state. Use the envelope below to practice writing two addresses.

Ideas for addresses:

- Your address
- Your favorite restaurant
- Your favorite place to go
- Someplace you would like to go
- A family member's address

SUPPORT

Share mail received and sent with your student to provide examples for the use of a comma within an address.

WATCHERS may enjoy searching for examples of commas used in address labels.

Unit A Alternative Assessment

PROJECT STEPS

1. Review the projects for this unit.
2. Choose one project to complete that will show what you have learned about science, engineering, and technology.
3. Complete the project over the next few days. Be sure you include the required criteria in your project.
4. Reflect on the performance assessment project with your instructor. Use the performance assessment scoring rubric to evaluate the project.

PROJECT CRITERIA

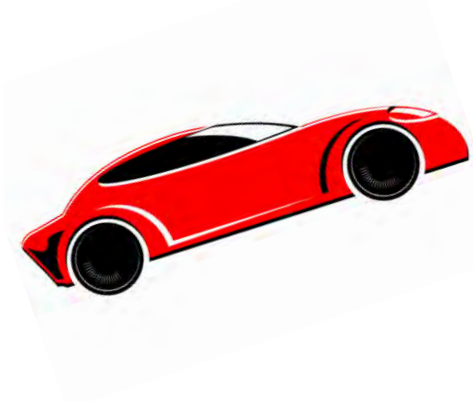
- The project displays clear and concise information demonstrating knowledge of science content.
- The student accurately follows the RAFT technique (Role, Audience, Format, and Topic).
- The project is creative, well-constructed, and accurate.
- The project's description is accurate.

Master Investigator

Create a trading card or a new card about scientific investigation. Your card will represent a scientific investigator. Describe the investigator's strengths and weaknesses. Include a question the investigator might ask to solve a problem. Present your project to your instructor, family, and friends!

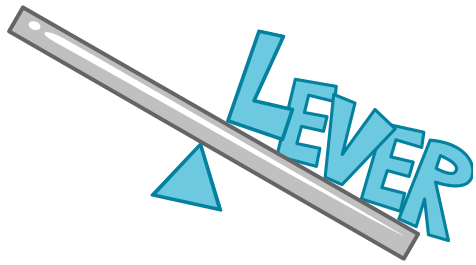
Make a Model

Use paper, glue, colored markers, and other supplies to build a model of something. You can build a rocket, a car, a bridge, or anything that interests you. Describe the parts of your model and how the parts work together. How does your model help explain how the real object works? How is your model not the same as the real object?



Make a Poster

Make a poster that teaches about the different kinds of simple machines. Use magazine images or online resources that show simple machines, or draw your own pictures. Label each simple machine. Write how each simple machine helps people do work.



Alternative Assessment Project Rubric

	4 Points	3 Points	2 Points	1 Point
Required Elements	The project included all required elements as well as additional information.	All required elements were included in the project.	Some of the required elements were included in the project.	Several required elements were missing.
Grammar and Mechanics	Excellent display of accurate grammar and mechanics throughout the project.	Some errors were noted with grammar and mechanics within the project.	Many errors were noted with grammar and mechanics within the project.	The grammar and mechanics errors interfered with the project message.
Details	Excellent details related to the project theme were presented within the project.	The project contained some details related to the project theme.	Few details were included in the project related to the project theme.	The project lacked detail related to the project theme.
Presentation of Project	The project was exceptionally attractive in terms of design, layout, and neatness.	The project was attractive in terms of design, layout, and neatness.	The presentation of the project lacked neatness and organization.	The project was messy and poorly designed.

Total Points Earned: _____/16 Average Grade: _____% Comments: _____

DAY 42 ACTIVITIES

- ❑ Review the **Big Question** on page 105. Read How Roots Help Plants, Types of Roots, How Stems Help Plants, and Types of Stems and answer questions 1-7 on pages 105-109.

EXPLORATION STATION

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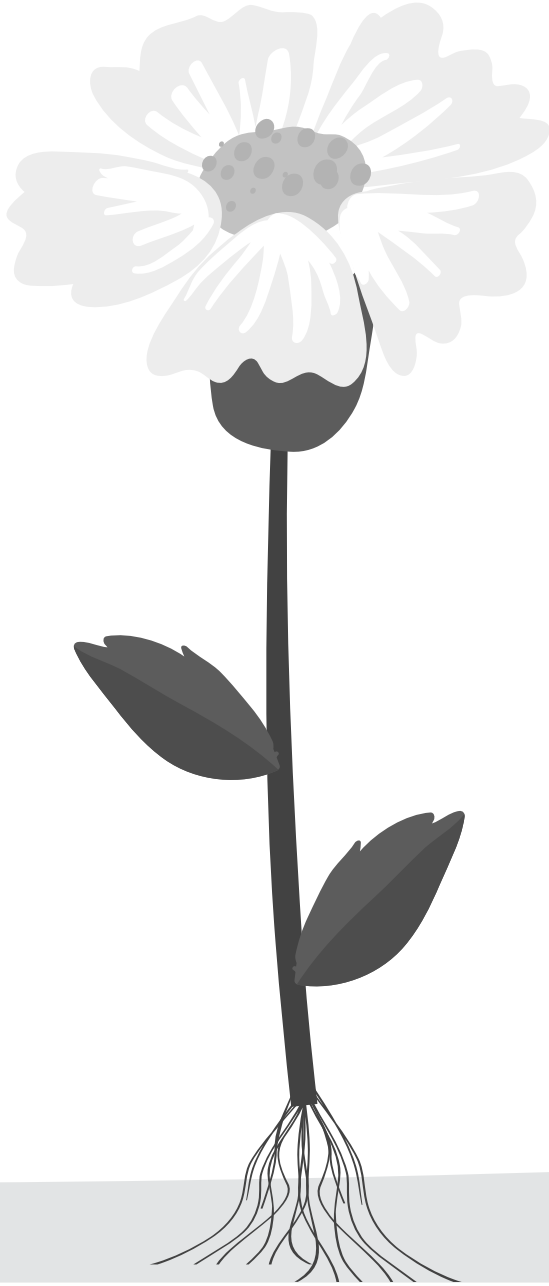
Explore Elephango for an activity to extend your learning.

- ❑ 11585 Parts of a Tree
- ❑ 11513 What Is Soil Made Of?

- ❑ Complete the **At-Home Lab** on page 107. Record the results!
- ❑ Label the parts of a plant.



SUPPORT

Prepare materials for the **At-Home Lab** on page 102 for your student.

WATCHERS may enjoy viewing the **At-Home Lab** demonstration.

WATCHED and LEARNED? ☐

DAY 77 ACTIVITIES

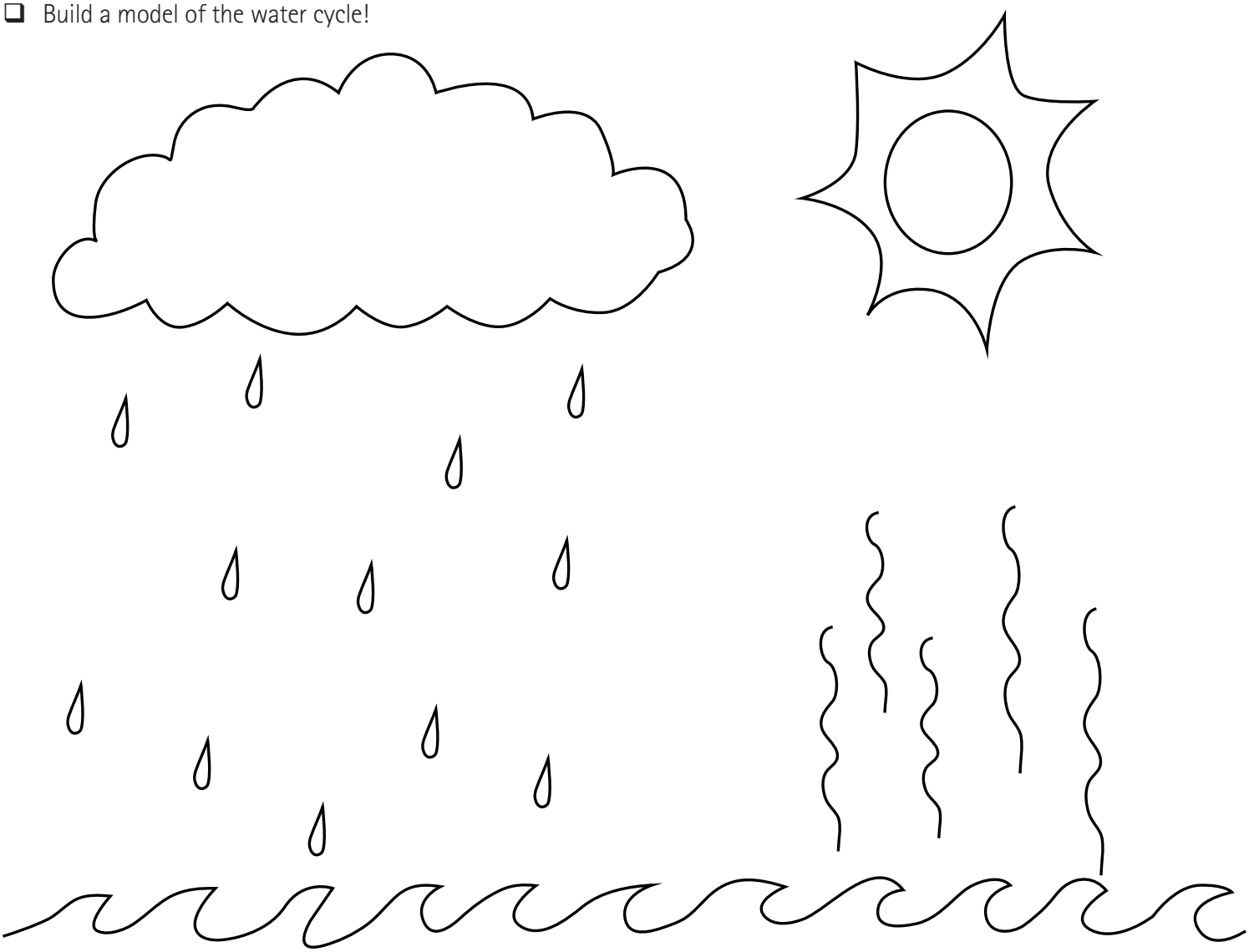
- ❑ Review the **Big Question** on page 221. Read Water on Earth and Water Cycle and answer questions 1-2 on pages 221-223. Complete the **Got it?** questions at the bottom of page 223.

EXPLORATION STATION

Explore Elephango for an activity to extend your learning.

- ❑ 12452 How Does the Water Cycle Work?

- ❑ Build a model of the water cycle!



SUPPORT

Discuss how water in the natural environment moves through the water cycle with your student.

WATCHERS may enjoy showing their understanding of the water cycle using a picture, a diagram, or other visual representation.

Day 165 Unit 7 Alternative Assessment

Develop a travel guide!

- ❑ Think about what you have learned about the state you studied. Review the Unit 7 Project Organizer you completed and the materials you gathered.
- ❑ What is the climate like in the state?
- ❑ What are some interesting places to visit?
- ❑ Decide how to show what you have learned about the state. Choose from the 4 options below.

Publish a travel guide booklet!

- ❑ Construct a booklet of folded paper.
- ❑ Design a cover for your travel guide.
- ❑ Include tips about climate and weather.
- ❑ Arrange and attach the photos you collected.
- ❑ Write captions for photos.

Design a magazine ad!

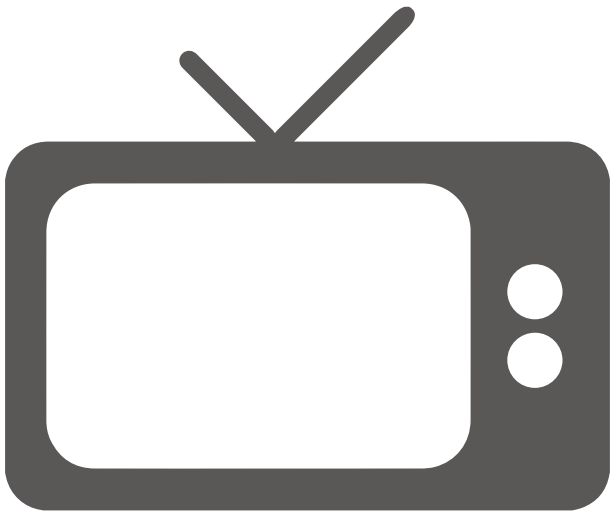
- ❑ Show people why they should visit the state you studied in a one-page advertisement.
- ❑ Design an ad that catches the reader's attention.
- ❑ Write a slogan and use wording that tells people what fun they would have in the state.

Produce a TV commercial!

- ❑ Create a commercial. Film the drawings and photos you have gathered.
- ❑ Write the narration to accompany the pictures telling people why they should visit the state. Record yourself narrating.

Create a board game!

- ❑ Use the information you gathered to make a board game with a map of the state as the playing board.
- ❑ Plan a route along which players will move in the game.
- ❑ Figure out how the game will be played. Gather or create the pieces you need for the game. Be sure to include information about the climate and interesting places in the state.
- ❑ Play your finished game with friends or family members.



Unit 7 Alternative Assessment Project Rubric

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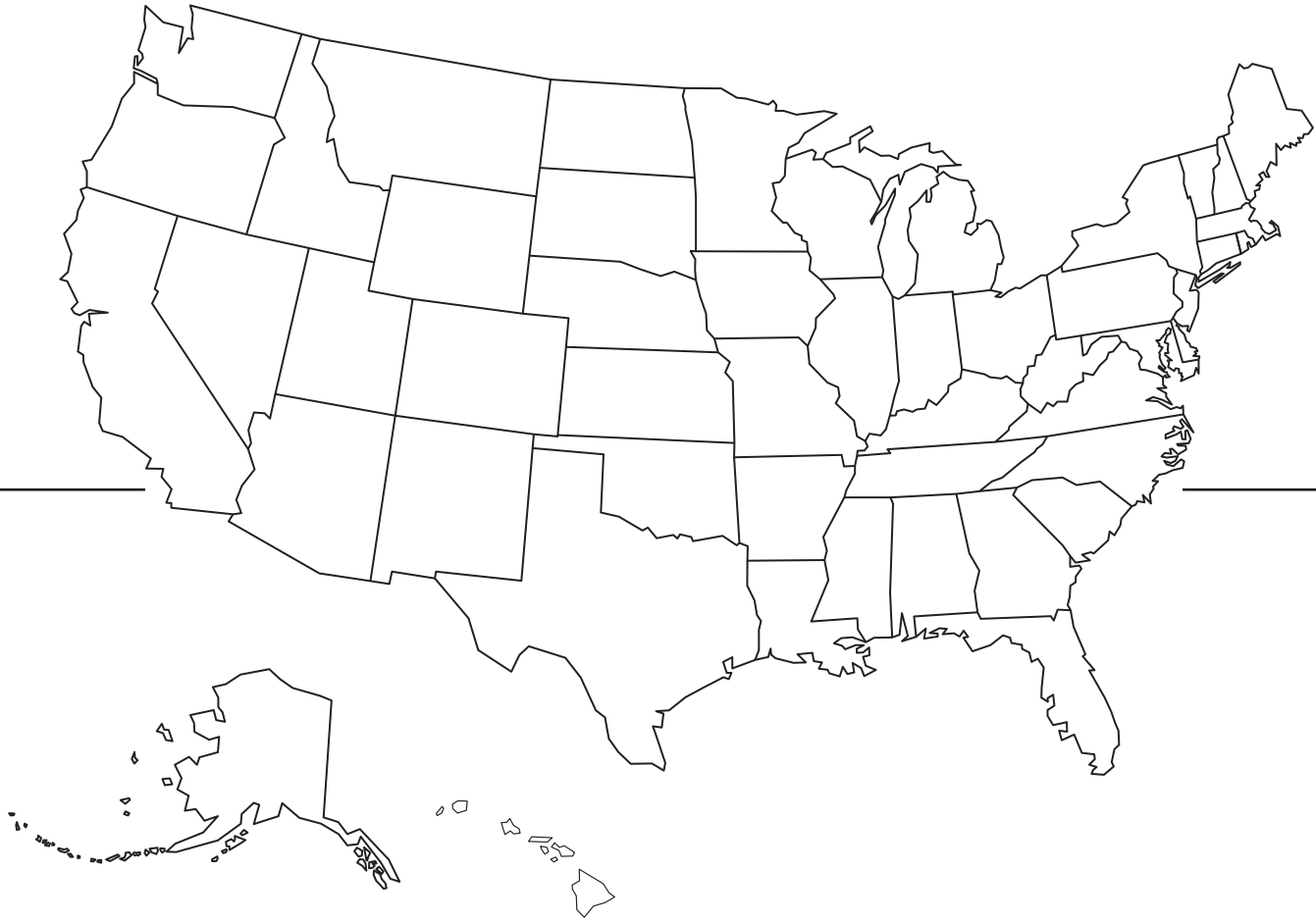
Total Points Earned: _____/16 Average Grade: _____% Comments: _____

DAY 133 ACTIVITIES

- ❑ Complete the At Home Activity on page 60 of *Maps, Globes, Graphs*.

EXPLORATION STATION

- ❑ Locate the Southwest region on a map or globe. Determine a line of longitude that passes through this region. What other areas does this line of longitude pass through? Write your answers on the map or in the space provided.



SUPPORT

Reference *Maps, Globes, Graphs* Teacher's Edition page T17 for this lesson.

WATCHERS may enjoy highlighting a line of longitude and making a list of areas it passes through.

WATCHED and LEARNED? ☐

DAY 121 ACTIVITIES

- ❑ Read Finding Latitude on page 52 of *Maps, Globes, Graphs*.

EXPLORATION STATION

- ❑ Use string to find the lengths of lines of latitude around a globe. Cut a piece of string that matches the lengths of each of the lines of latitude below.
  - ❑ 15° N
  - ❑ 15° S
  - ❑ 30° N
  - ❑ 30° S
  - ❑ 45° N
  - ❑ 45° S
  - ❑ Equator
- ❑ Measure each string with a yardstick. Measure other lines of latitude and record your findings on the chart below.

SUPPORT

Reference *Maps, Globes, Graphs* Teacher's Edition page T16 for this lesson.

WATCHERS may enjoy observing how to use string to create a line of latitude.

15° N	15° S	30° N	30° S	45° N	45° S	EQUATOR
_____	_____	_____	_____	_____	_____	_____

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-Janine

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