

# Readington Township Public Schools

## Grade 2 Mathematics

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Readington Township Public Schools

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## Second Grade Mathematics

### Overview

Readington Township Public Schools' K-5 mathematics curriculum provides students with a strong foundation in mathematics content while promoting and instilling the skills of problem solving, communication in mathematics, making mathematical connections, and reasoning. Throughout the delivery of the K-5 mathematics program, various tools and technology are employed, including manipulatives, calculators, software, apps, videos, websites, and digital platforms). A strong focus of the program is on promoting high levels of mathematical thought through experiences that extend beyond traditional computation.

Grade 2, instruction focuses broadly on four critical areas: (1) extending understanding of base-ten notation; (2) developing accuracy and efficiency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing shapes.

### STUDENT OUTCOMES

(Linked to [New Jersey Student Learning Standards for Mathematics 2023](#))

#### OPERATIONS AND ALGEBRAIC THINKING (2.OA)

- A. Represent and solve problems involving addition and subtraction
  - 1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.
- B. Add and subtract within 20
  - 2. With accuracy and efficiency, add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.
- C. Work with equal groups of objects to gain foundations for multiplication
  - 3. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.
  - 4. Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

#### NUMBER AND OPERATIONS IN BASE TEN (2.NBT)

- A. Understand place value
  - 1. Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases:
    - a. 100 can be thought of as a bundle of ten tens — called a “hundred.”
    - b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).
  - 2. Count within 1000; skip-count by 5s, 10s, and 100s.
  - 3. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.
  - 4. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using  $>$ ,  $=$ , and  $<$  symbols to record the results of comparisons.
- B. Use place value understanding and properties of operations to add and subtract
  - 5. With accuracy and efficiency, add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.
  - 6. Add up to four two-digit numbers using strategies based on place value and properties of operations.
  - 7. Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.
  - 8. Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.
  - 9. Explain why addition and subtraction strategies work, using place value and the properties of operations. (Clarification: Explanations should be supported by drawings or objects.)

## **MEASUREMENT (2.M)**

- A. Measure and estimate lengths in standard units
1. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.
  2. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.
  3. Estimate lengths using units of inches, feet, centimeters, and meters.
  4. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.
- B. Relate addition and subtraction to length
5. Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.
  6. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.
- C. Work with time and money
7. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.
  8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. Example: If you have 2 dimes and 3 pennies, how many cents do you have?

## **DATA LITERACY (2.DL)**

- A. Understand concepts of data
1. Understand that people collect data to answer questions. Understand that data can vary.
  2. Identify what could count as data (e.g., visuals, sounds, numbers).
- B. Represent and interpret data
3. Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.
  4. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.

## **GEOMETRY (2.G)**

- A. Reason with shapes and their attributes
1. Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. (Clarification: sizes are compared directly or visually, not compared by measuring)
  2. Partition a rectangle into rows and columns of same-size squares and count to find the total number of them.
  3. Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape. For example, students partition a rectangle (i.e. the whole) into three equal shares, identify each of the shares as a 'third' and describe the rectangle as three 'thirds'.

## **9.1 PERSONAL FINANCIAL LITERACY**

### **Civic Responsibility**

9.1.2.CR.1: Recognize ways to volunteer in the classroom, school and community.

9.1.2.CR.2: List ways to give back, including making donations, volunteering, and starting a business.

### **Financial Institutions**

9.1.2. FI.1: Differentiate the various forms of money and how they are used (e.g., coins, bills, checks, debit and credit cards).

### **Financial Psychology**

- 9.1.2.FP.1: Explain how emotions influence whether a person spends or saves.
- 9.1.2.FP.2: Differentiate between financial wants and needs.
- 9.1.2.FP.3: Identify the factors that influence people to spend or save (e.g., commercials, family, culture, society)

**Planning and Budgeting**

- 9.1.2.PB.1: Determine various ways to save and places in the local community that help people save and accumulate money over time.
- 9.1.2.PB.2: Explain why an individual would choose to save money.

**Risk Management and Insurance**

- 9.1.2.RM.1: Describe how valuable items might be damaged or lost and ways to protect them.

**Mathematical Practices**

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

**Strategies**

- Teacher presentation
- Teacher read-aloud
- Group discussion
- Small Group instruction
- Group presentations
- Interactive Smartboard Lessons
- Partner work
- Museum walks
- Math talk (students explain their thinking)
- Small Group Work
- Daily 5 Math
- Centers/ stations

**Accommodations**

[Accommodations and Modification Addendum](#)

**Assessments**

Formative	Summative
<ul style="list-style-type: none"> <li>● Independent student work</li> <li>● Ready Classroom Lesson Quizzes</li> <li>● Teacher Observations</li> <li>● Class Participation</li> <li>● Class Discussions</li> <li>● Class Assignments</li> <li>● Homework Assignments</li> <li>● Notebooks</li> <li>● Anecdotal Records</li> </ul>	<ul style="list-style-type: none"> <li>● Mid-Unit Test</li> <li>● Unit Test</li> </ul>
Benchmark	Alternative
<ul style="list-style-type: none"> <li>● I-Ready Diagnostic</li> <li>● Performance Assessments</li> </ul>	<ul style="list-style-type: none"> <li>● Live Online Assessment Tools (Kahoot, Brainpop)</li> <li>● Student Projects</li> <li>● Student Presentations</li> <li>● Self-Assessments</li> </ul>

Resources	
Required/Primary	Supplemental
<ul style="list-style-type: none"> <li>● Ready Classroom Mathematics, Curriculum Associates, LLC               <ul style="list-style-type: none"> <li>○ Teacher Manual Volumes 1 &amp; 2</li> <li>○ Student Books Volumes 1 &amp; 2</li> <li>○ Ready Classroom Teacher Toolbox</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Brain Pop</li> <li>● IXL</li> <li>● Reflex Math</li> <li>● Online Tutorials (Learnzillion, Khan Academy, Math Antics)</li> <li>● Online Math Games (Math is Fun, Funbrain, Cool Math Games, Math Playground)</li> </ul>

## Essential Questions And Content

### Operations And Algebraic Thinking

#### Strategies for Addition and Subtraction Within 20

- How do subtraction and addition relate to one another?
- How do we use and understand numbers in our daily lives?

#### Subtract 2-Digit Numbers

- What are efficient methods for finding differences?
- How does the position of a digit in a number affect subtraction problems?
- How can I use what I know about money, addition, and subtraction to know how much money I have?

#### Arrays, Equal Shares, and Adding or Subtracting Lengths

- Can I use patterns to help me understand larger numbers?
- Can I use patterns to help me understand equal parts?
- How is measuring like using a number line?

### Number And Operations In Base Ten

#### Addition Within 200

- How do we represent larger numbers?
- What computation tools should I use when adding large numbers?
- How do I know how much money I have or how much something costs?

#### Three-Digit Addition and Subtraction

- How do strategies assist in more efficient and accurate computation?
- What computation tools are best suited to which circumstances?

### Measurement

#### Length

- What are tools of measurement and how are they used?
- When is an estimate more appropriate than an actual measurement?

#### Time and Money

- What time is it when certain things happen during one day?
- How do I count combinations of coins and bills?

### Data Literacy

#### Understand Concepts of Data

- Why do people collect data?
- How can data be represented?

### Geometry

#### Recognize and Partition Shapes

- How do I draw a shape when I'm given certain attributes to use?
- How do I determine if I have equal shares?

### Personal Financial Literacy

- What actions can an individual take to help make the world a better place?
- What are the different values, forms and uses of money?
- How do an individual's values and emotions affect the way that he/she spends money?

- How does an individual determine the difference between a want and a need?
- How can an individual obtain his/her financial goals?
- How can valuable items be protected?

## Pacing and Interdisciplinary Connections

### Numbers Within 20: Addition, Subtraction, and Data

#### Lessons 0-5 (29 days)

- Mental Math Strategies for Addition
- Mental Math Strategies for Subtraction
- Solve One-Step Word Problems
- Draw and Use Bar Graphs and Picture Graphs
- Solve Two-Step Word Problems

#### **Interdisciplinary Connections:**

- **2.OA.B.2** With accuracy and efficiency, add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.  
**SL.PE.2.1** Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.  
**L.VL.2.2.A** Use sentence-level context as a clue to the meaning of a word or phrase.  
**Activity:** Working in small groups, students will incorporate new vocabulary in their discussion of strategies for solving the one and two-step word problems then write a response utilizing the new vocabulary.
- **2.DL.B.4** Draw a picture graph and a bar graph (with a single-unit scale) to represent a data set with up to four categories.  
**W.IW..2.2.** Write informative/explanatory texts in which they introduce a topic, use evidence-based facts and definitions to develop points, and provide a conclusion.  
**2-LS4-1** Make observations (firsthand or from media) to collect data that can be used to make comparisons.  
**Activity:** Students will individually measure and record their seed/plant growth in their science journals over a period of time. On a selected day, individual data results are entered in a class digital Bar Graph for all to analyze. **(Insects and Plants Unit)**

### Numbers Within 100: Addition, Subtraction, Time, and Money

#### Lessons 6-11 (31 Days)

- Add Two-Digit Numbers
- Subtract Two-Digit Numbers
- Use Addition and Subtraction Strategies with Two-Digit Numbers
- Solve Word Problems with Two-Digit Numbers
- Solve Word Problems Involving Money
- Tell and Write Time

#### **Interdisciplinary Connections:**

- **2.OA.A.1** Represent and solve problems involving addition and subtraction.  
**SL.II.2.2.** Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.  
**SL.2.2.B.** Build on others talk in conversations by linking their explicit comments to the remarks of others.  
**L.VL.2.2.** Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.  
**Activity:** Students work with a small group to share their responses to word problems. They discuss connections among different models and representations, critique approaches and solutions, and draw conclusions based on their observations.

### Numbers Within 1,000: Place Value, Addition, and Subtraction

#### Lessons 12-19 (34 Days)

- Understand Three-Digit Numbers

- Read and Write Three-Digit Numbers
- Compare Three-Digit Numbers
- Mental Addition and Subtraction
- Add Three-Digit Numbers
- Subtract Three-Digit Numbers
- Add Several Two-Digit Numbers

**Interdisciplinary Connections:**

- **2.NBT.B.7.** Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

**W.2.1** Write opinion pieces in which they introduce the topic or book they are writing about, state an opinion, supply **W.NW.2.3.C.** Use transitional words to manage the sequence of events.

**SL.ES.2.3.** Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.

**Activity:** Students will use a place value chart to draw a representation of the steps used in solving a three digit number problem and to label each step using the sequence words *first*, *next*, and *finally*. When finished, students will share their responses with a new partner using the sequence words *first*, *next*, and *finally*.

**Length: Measurement, Addition and Subtraction, and Line Plots**

**Lesson 20-27 (33 days)**

- Measure in Inches and Centimeters
- Measure in Feet and Meters
- Understand Measurement with Different Units
- Estimate and Measure Length
- Add and Subtract Lengths
- Add and Subtract on the Number Line
- Read and Make Line Plots

**Interdisciplinary Connections:**

- **2.M.A.1.** Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

**W.WI.2.2.** Write informative/explanatory texts to examine a topic and convey ideas and information.

**2-LS4-1** Make observations (firsthand or from media) to collect data that can be used to make comparisons.

**Activity:** Students will individually measure and record their seed/plant growth in their science journals over a period of time. On a selected day, individual data results are entered in a class digital Bar Graph for all to analyze. (**Insects and Plants Unit**)

**Shapes and Arrays: Partitioning and Tiling Shapes, Arrays, Even and Odds**

**Lessons 28-32 (19 days)**

- Recognize and Draw Shapes
- Understand Partitioning Shapes into Halves, Thirds, and Fourths
- Partition Rectangles
- Add Using Arrays
- Even and Odd Numbers

**Interdisciplinary Connections:**

- **8.1.2.A.2** Create a document using a word processing application

**2.G.A.3** Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words *halves*, *thirds*, *half of*, *a third of*, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

**Activity:** Students will record observations of liquids in various containers on a shared Google Doc using math terms to describe findings, ie; the whole as two halves, three thirds, four fourths (**Solids and Liquids Unit**)

### Personal Financial Literacy (10 days)

#### Civic Responsibility

- There are actions an individual can take to help make this world a better place.

#### Financial Institutions

- Money comes in different values, forms, and uses.

#### Financial Psychology

- There is a relationship between an individual's values, emotions, and the ways he/she chooses to spend money.
- External factors can influence the items that an individual wants or needs.

#### Planning and Budgeting

- A budget is a plan that helps an individual obtain his/her financial goals.
- Saving money is a habit that can be developed.

#### Risk Management and Insurance

- There are ways to keep the things we value safe at home and other places.

## Career, Computer Science, and Key Skills

### Operations And Algebraic Thinking

- **Career Ready Practices**

Utilize critical thinking to make sense of problems and persevere in solving them.

**2.OA.B.2** Add and subtract within 20

**Activity:** Students will use base ten blocks to add and subtract with regrouping. Students will then have to explain to a partner how and when to regroup.

- **9.2 Career Awareness, Exploration, and Preparation**

**9.2.2.CAP.1:** Make a list of different types of jobs and describe the skills associated with each job.

**2.OA.A.1** Represent and solve problems involving addition and subtraction.

**Activity:** Students will create word problems to match the jobs brainstormed.

- **9.4 Life Literacies and Key Skills**

**9.4.2.CT.3:** Use a variety of types of thinking to solve problems (e.g., inductive, deductive).

**9.4.2.DC.2:** Explain the importance of respecting the digital content of others.

**9.4.2.IML.4:** Compare and contrast the way information is shared in a variety of contexts.

**9.4.2.TL.7:** Describe the benefits of collaborating with others to complete digital tasks or develop digital artifacts.

**2.OA.A.1.** Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

**Activity:** Students will solve various word problems and discuss why being able to explain their thinking is important.

- **Computer Science**

**8.1.2.CS.1:** Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences.

**2.OA.C.4** Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

**Activity:** Students will be able to solve problems and explain their thinking to their peers using a digital platform. (ex. SmartSuite)

### Number And Operations In Base Ten

- **Career Ready Practices**

Act as a responsible and contributing citizen and employee.

**2.NBT.A.1** Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones

**Activity:** Students will expand three-digit numbers into hundred blocks, ten sticks, and ones. Then students will work in a math group to explain their thinking.

- **9.2 Career Awareness, Exploration, and Preparation**

**9.2.2.CAP.2:** Explain why employers are willing to pay individuals to work.

**2.NBT.A.1** Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones; e.g., 706 equals 7 hundreds, 0 tens, and 6 ones. Understand the following as special cases: a. 100 can be thought of as a bundle of ten tens — called a “hundred.”

**Activity:** Students will discuss the correlation between place value and money.

- **9.4 Life Literacies and Key Skills**

**9.4.2.CI.1:** Demonstrate openness to new ideas and perspectives.

**9.4.2.TL.2:** Create a document using a word processing application.

**9.4.2.DC.6:** Identify respectful and responsible ways to communicate in digital environments.

**2.NBT.B.7.** Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.

**Activity:** Students will share ways they know how to add and subtract. They will create a visual presentation to explain their thinking. They will discuss the importance of knowing more than one way. .

- **Computer Science**

**8.1.2.CS.1:** Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences.

**2.NBT.B.6** Add up to four two-digit numbers using strategies based on place value and properties of operations

**Activity:** Students will record their work on a shareable document with another student, they will provide each other feedback digitally.

## Measurement

- **Career Ready Practices**

Communicate clearly and effectively and with reason.

**2.M.C.8** Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately.

**Activity:** Students will work with math partners to answer word problems involving money, they will be able to explain what bills, and coins they used as well identify the amount of each coin.

- **Computer Science**

**8.1.2.CS.1:** Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences.

**2.M.C.7** Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.

**Activity:** Students will play a game on a digital platform that has them identifying as well as writing time on an analog and digit clock.

## Data Literacy

- **9.2 Career Awareness, Exploration, and Preparation**

**9.2.2.CAP.1:** Make a list of different types of jobs and describe the skills associated with each job.

**2.DL.B.4.** Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.

**Activity:** Students will graph the different types of jobs discussed and the skills associated with each job.

- **9.4 Life Literacies and Key Skills**

**9.4.2.CT.3:** Use a variety of types of thinking to solve problems (e.g., inductive, deductive).

**9.4.2.IML.2:** Represent data in a visual format to tell a story about the data.

**9.4.2.DC.3:** Explain how to be safe online and follow safe practices when using the internet.

**9.4.2.TL.3:** Enter information into a spreadsheet and sort the information.

**2.DL.B.4.** Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems<sup>4</sup> using information presented in a bar graph.

**Activity:** Students will analyze data pictures and bar graphs. They will create questions that relate to the graphs. Students will then be paired up and each partner will solve the other questions.

## Geometry

- **Career Ready Practices**

Demonstrate creativity and innovation.

**2.G.A.3** Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

**Activity:** Students will use circles and rectangles that have been partitioned into two, three, and four equal shares to create a robot. Students will be able to explain what shapes they used to create their robot and explain using the words halves, thirds, half of, a third of etc.

- **9.2 Career Awareness, Exploration, and Preparation**

9.2.2.CAP.1: Make a list of different types of jobs and describe the skills associated with each job.

**2.G.A.3** Partition circles and rectangles into two, three, or four equal shares, describe the shares using the words halves, thirds, half of, a third of, etc., and describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape.

**Activity:** Students will make a list of jobs that would require prior knowledge of fractions and equal parts and how it is used everyday.

- **9.4 Life Literacies and Key Skills**

**9.4.2.CI.2: Demonstrate** originality and inventiveness in work.

**9.4.2.DC.2:** Explain the importance of respecting the digital content of others.

**9.4.2.TL.2:** Create a document using a word processing application.

**2.G.A.1.** Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

**Activity:** Students will create an image on a Google doc using a variety of shapes. Students will then take a museum walk to see what shapes were used and record their findings to discuss later.

- **Computer Science**

**8.1.2.DA.3:** Identify and describe patterns in data visualizations.

**2.G.A.1** Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.

**Activity:** Students will create pictures using geometric shapes. Shapes will be totaled as a class and will look for patterns.