

# Third Grade Mathematics TEKS

## *Students Learn to ...*

### ***Number, Operation, Quantitative Reasoning***

- Use place value to read, write, and describe numbers.
- Compare and order whole numbers less than 10,000.
- Determine the value of a collection of coins and bills.
- Name fractional parts of a whole or a set using symbols.
- Construct models of equivalent fractions.
- Model addition and subtraction.
- Add and subtract with numbers less than 1,000.
- Learn and apply multiplication facts.
- Multiply using a one-digit multiplier.
- Use models for division and record the solutions.
- Round numbers to tens or hundreds.
- Estimate sums and differences.

### ***Patterns, Relationships, Algebraic Thinking***

- Make predictions and solve problems using patterns.
- Identify patterns in multiplication facts.
- Identify fact families for multiplication and division.
- Generate tables of ordered pairs.
- Identify and extend patterns of ordered pairs.

### ***Geometry & Spatial Reasoning***

- Name, describe, and compare shapes and solids.
- Identify congruent shapes.
- Create and identify lines of symmetry.
- Locate and name whole numbers and fractions on a number line.

### ***Measurement***

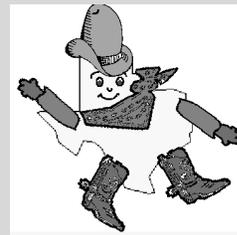
- Estimate and measure length using metric and customary units.
- Find the perimeter of a figure.
- Determine area using concrete models.
- Tell and write time on digital and traditional clocks.
- Measure length, temperature, and time to solve problems.

### ***Probability & Statistics***

- Collect, organize, record, and display data in picture and bar graphs.
- Interpret information from graphs.
- Describe events as more likely, less likely, or equally likely.

### ***Problem Solving***

- Identify the mathematics in everyday situations.
- Use a problem-solving model.
- Use tools such as real objects, manipulatives, and technology to solve problems.
- Explain and record observations.
- Relate informal language to mathematical language and symbols.
- Make generalizations from patterns.
- Justify why an answer is reasonable and explain the solution process.



### ***TEKSman's Tips for Parents***

- Let your child know that you value math and believe she/he can succeed.
- Encourage your child to identify shapes and patterns in books and magazines.
- Use shopping and buying occasions as an opportunity to count the value of coins. How much is needed? How much change will you receive?
- Talk with your child's teacher about the mathematics curriculum and ask for a time when you can visit to observe curriculum in action.

# Third Grade Mathematics

## Third Grade Mathematics Activities

- To help your child with numbers, involve your child in shopping (at the store or with ads). Give your child an amount of money, between \$3 and \$5 and ask your child what she/he could buy. You can also have your child manage money with an allowance.
- To help your child with patterns, give your child beans or other objects and ask them to use the objects to model multiplication facts. For example, three rows of four each would show the fact  $4 \times 3 = 12$ .
- To help your child with geometry, have your child identify objects in nature with symmetry. A butterfly, for example, would be symmetrical because it looks the same on both sides of its body. Symmetry may be found in faces, bodies, leaves, paintings, and architecture.
- To help your child with measurement, ask him/her to measure objects at home to the nearest half inch or half centimeter. Your child can also measure the distance around objects to determine perimeter and area.
- Cooking can help your child with capacity and weight measurement. Keeping a time schedule is helpful for learning to tell time.
- To help your child with probability and statistics, ask him/her to chart foods eaten for one week and make a graph using this data. Ask your child to show the information in more than one way, such as a table, picture graph, and bar graph.

## Resources

### Books

- *Beyond Facts and Flashcards* by J. Mokros
- *Family Math* by J. K. Stenmark & R. Cossey
- *The Book of Think* by M. Burns

### Online Resources

- <http://www.aaamath.com/>
- <http://www.coolmath4kids.com>
- <http://www.kidscarnival.com/Time1.html>

## Questions to Ask Your Child

- “Do you have enough money to make that purchase?”
- “How much money will you need to buy two of these things?”
- “How much money will you need to buy two different things?”
- “How much change will you get from the money you pay?”
- “Talk about the numbers as you are putting out the objects.”  
*Example:* I put four and four more, so that’s eight. Another row of four gives me 12.
- “How many will you have if you get one more row of objects?”
- “How do you know when an object is symmetrical?”
- “How can you find the line of symmetry?” (*The line of symmetry divides an object into two matching pieces that look the same on each side.*)
- “When is it important to be precise when you are measuring?”
- “Why do we sometimes need to be precise in measuring?”
- “When is it OK to use an estimate when measuring?”
- “About how big is one inch?” “About how big is one foot?”
- “About how big is one centimeter?” “About how big is one meter?”
- “How did you organize your information before you made your graph?”
- “Based on the information you gathered this week, what foods and how many of each do you think you might eat next week?”

## Other Suggestions

- Cook with your child. Follow a recipe by using appropriate measuring tools.
- Play board or card games (checkers, Uno, Go Fish, War, Concentration) that involve turn-taking and following rules.
- Work on mental math strategies. “What is the sum of 10 and 15?”  
“What happens when you subtract 10 from any number greater than 20?”

# Third Grade Language Arts TEKS

*Students Learn to ...*

## **Listening & Speaking**

- Listen to solve problems, gather information, or appreciate stories.
- Listen to identify the musical elements of literacy language, such as rhymes, repeated sounds, or instances of onomatopoeia.
- Gain increasing control of grammar, such as subject-verb agreement, complete sentences, and correct tense usage.
- Compare language and oral traditions (family stories) that reflect customs, regions, and cultures.

## **Reading**

- Use knowledge of decoding and structural cues such as prefixes, suffixes, and derivational endings to identify words.
- Read and comprehend a variety of third-grade-level texts.
- Read for enjoyment, to solve problems, gather information, extend vocabulary.
- Make and explain important inferences in a story.
- Demonstrate knowledge of synonyms, antonyms, and multi-meaning words.
- Gather important information using resources and references.
- Analyze the literary elements of narrative text.
- Read orally from familiar text with accuracy, expression, appropriate phrasing, and attention to punctuation.
- Read silently for increasing periods of time.

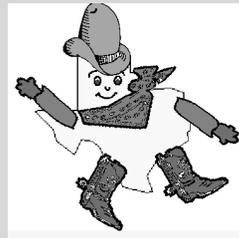
## **Writing**

- Write to record ideas and reflections for a variety of audiences.
- Use more complex capitalization, punctuation, and spelling.
- Develop, revise, and edit writing and compositions using established criteria.
- Write for varied purposes, including to achieve a sense of audience, make precise word choices, and create vivid images.

- Use available technology for word processing, spell checking, and printing. compile notes into reports, outlines, and summaries.

## **Third Grade Resources**

- Read the **newspaper** and discuss local events.
- Watch **educational television programs** such as *Wishbone*, *Bill Nye*, and the *Magic School Bus* and discuss them.
- Read **signs**, billboards, posters, menus, and recipes.
- Provide a variety of **writing supplies**, such as pencils, markers, crayons, different types of lined and unlined paper.
- Use a **computer** for writing with word processing and drawing programs. Learn to use online resources such as the spell checker and thesaurus.
- Have a **basket of books** with topics/authors of high interest to your child that can be carried anywhere you go.
- Provide a **dictionary** and **thesaurus** and show how to use them.



## **TEKSman's Tips for Parents**

- Read to and listen to your child daily.
- Have conversations with your children about topics that are interesting to them.
- Show the value and enjoyment of reading.
- Give books, magazines and writing materials as gifts.
- Visit the library or bookstore regularly.
- Schedule family quiet times for reading.
- Watch family TV shows together and discuss them.
- Establish a time and a place to do homework.

# Third Grade Language Arts

## ***Listening & Speaking Activities***

- Act out parts of a story or poem.
- Tape record a story or create a radio or TV show.
- Have storytelling time or share events of the day at the dinner table.
- Discuss significance of holidays and family celebrations.
- Encourage your child to respond courteously (thank you, you're welcome).
- Have your child draw a self-portrait and tell five good things about him or herself.
- Watch the news and discuss statements that are facts and opinions.

## ***Reading Activities***

- Make word banks (index card box).
- Read and categorize coupons.
- Provide a quiet time for family members to read.
- Read and discuss several books by the same author.
- Identify similarities and differences between stories and poems.
- Read action words and do what they mean (ex. jump, skip, run).
- Read maps and locate information about particular city, state, or country.
- Read current events: newspaper, magazines, Internet.

## ***Writing Activities***

- Write about a picnic or another event and tell how it made you feel.
- Create a word bank or personal dictionary.
- Write directions on how to get to different locations (school, home, store).
- Write letters to museums, zoos, aquariums and other places of interest to find out about visiting.
- Compile photo albums and a sentence about each photograph.
- Create science fair projects and write an explanation about the project.
- Make a map of the house or a store and label the places inside. Write directions for evacuation in case of a fire or another emergency.
- Write a poem about the subject of your choice.

## ***Questions to Ask Your Child***

- After watching an informational program ask, "Do you agree? Why or why not?"
- After watching the news ask, "Was that a fact or an opinion? How do you know?" "What words would you use to describe this (pick an object)?"
- Encourage your child in asking 'how' and 'why' questions.
- "What new word did you read today? Where did you read it? What does it mean?"
- "Why do you think the author wrote this? Who was the audience the author had in mind?" After reading a new article, ask, "What was the main idea?"
- Ask your child to locate a place on the map. "How could we get there?"
- After your child has written a poem or story of her/his choice, ask, "How did you come up with that idea?"
- Before beginning a science or another project, ask, "What question are you trying to answer?"
- "When you write directions, what kinds of words and sentences do you use?"
- "If you were to write your poem in a special color or shape, how would it look?"

## ***On-line Resources***

- <http://www.pbs.org/kratts/>
- <http://www.nationalgeographic.com/kids.index.html>
- <http://www.internetpubliclibrary>