



# Star of the Sea Summer 2020 Math & Reading



Recommendations for PreK-4th Grade.

**Requirements** for students entering Grade 5 through 8th!

REVISED 6/01/2020

**Recommended for rising Early Learners (PK3) and rising Junior Kindergarten (PK4)**

## **Early Learners (PK3) Summer Learning Ideas**

Something you can do to help your Early Learner stay active and ready school is join the Virginia Beach Public Library Reading Challenge!

<https://www.vbgov.com/government/departments/libraries/Pages/home.aspx>

Work on fine motor skills

Cutting paper-make a collage from magazine

Play-Doh; rolling, stretching & pinching

Coloring pictures

Writing/tracing letters

Have your child keep a summer journal! Encourage them to draw a picture once a week of their favorite activity. Have them tell you about it and write it in the journal.

Online learning games

<http://www.cookie.com/preschool.html>

[http://www.abcya.com/preschool\\_games.htm](http://www.abcya.com/preschool_games.htm)

<http://pbskids.org/>

**Rising Junior Kindergarten (PK4)/K - Visit this GREAT site!**

<https://www.goodreads.com/review/list/34145074-virginia-beach-public-library?shelf=4-and-5-year-old-book-recommendations>

<http://mrnussbaum.com>

<http://www.cookie.com/preschool.html>

<https://www.turtlediary.com/games.html>

<http://more.starfall.com/m/welcome/index/load.htm>

[http://www.abcya.com/preschool\\_games.htm](http://www.abcya.com/preschool_games.htm)

<http://pbskids.org/>

<http://www.sheppardsoftware.com/preschool/preschool.htm>

Fine Motor Skills:

Cutting (age-appropriate scissors)

Playdoh

Coloring/Writing (standard-sized (**not** Jumbo) pencils or crayons)

Read Alouds:

Nursery Rhymes

Rhyming Stories (Llama Llama books are great!)

Wordless Picture Books (let your child tell the story)

Counting Books

ABC Books

## **Recommended for Rising Kindergarten through Grade 2**

Check out the Virginia Beach Public Library website.

<https://www.virginiapubliclibrary.info/summer-reading-2020/>

### Recommended Math Sites

[www.funbrain.com](http://www.funbrain.com)

[www.mathplayground.com/math\\_monster](http://www.mathplayground.com/math_monster)

[www.sheppardsoftware.com/math](http://www.sheppardsoftware.com/math)

[abcya.com](http://abcya.com)

[www.starfall.com](http://www.starfall.com)

[www.ixl.com](http://www.ixl.com)

### Recommended Reading

Rising K and 1st grade daily reading is encouraged (approx. 20 minutes)

Rising 2nd grade daily independent reading is encouraged ( approx. 20 minutes)

## **Recommended Reading and Math for Rising 3<sup>rd</sup> Graders**

### **Recommended Reading**

Check out the Virginia Beach Public Library website.

<https://www.viriniapubliclibrary.info/summer-reading-2020/>

### **Recommended Math**

One of the things we notice each school year is that instant recall of multiplication facts have a direct bearing on a student's success in mastering fractions, algebra, and basic math in general. There are some really good apps out there as well, including Rocket Math, Times Tables Quiz, and Sushi Monster. Of course, there is nothing wrong by going "old school" with traditional flashcards or students can continue to play on Prodigy.

### **IXL Exercises -**

#### **Second Grade Exercises (review)**

##### **Y. Multiplication**

1. Count Equal Groups
4. Relate Addition and Multiplication for Equal Groups
2. Identify Multiplication Sentences for Equal Groups
3. Write Multiplication Sentences for Equal Groups
5. Write Multiplication Sentences for Arrays
6. Write Multiplication Sentences for Number Lines
7. Multiplication Tables for 2, 3,4
8. Multiplication Tables up to 5

##### **Z. Division**

1. Divide by counting equal groups
2. Write division sentences for groups
3. Divisors and quotients up to 5

#### **Third Grade Exercises (if you're ready for a challenge)**

##### **E. Understand Multiplication - Exercises 1-8**

1. Count equal groups
2. Identify multiplication expressions for equal groups
3. Write multiplication sentences for equal groups
4. Relate addition and multiplication for equal groups
5. Identify multiplication for expressions for arrays

**CONTINUED**

6. Write multiplication sentences for arrays
7. Make arrays to model multiplication
8. Write multiplication sentences for number lines

**F. Multiplication Skill Builders - Exercises 1-13**

1. Multiply by 0
2. Multiply by 1
3. Multiply by 2
4. Multiply by 3
5. Multiply by 4
6. Multiply by 5
7. Multiply by 6
8. Multiply by 7
9. Multiply by 8
10. Multiply by 9
11. Multiply by 10
12. Multiply by 11
13. Multiply by 12

**I. Understand Division - Complete exercises 1 - 5**

1. Divide by counting equal groups
2. Write division sentences for groups
3. Relate multiplication and division for groups
4. Write division sentences for arrays
5. Relate multiplication and division for arrays

## **CONTINUED**

### **J. Division Skill Builders - Complete exercises 1 - 5**

1. Divide by 1
2. Divide by 2
3. Divide by 3
4. Divide by 4
5. Divide by 5

STUDENTS ENTERING 4th GRADE:

### **Recommended Reading and Math for Rising 4<sup>th</sup> Graders (those entering 4th grade)**

#### **Recommended Reading**

- **The Tale of Despereaux** (PDF of comprehension questions sent via email)  
By Kate DiCamillo
- **Because of Winn-Dixie** (PDF of comprehension questions sent via email)  
by Kate Di Camillo
- **Cricket in Times Square** (PDF of comprehension questions sent via email)  
by George Seldon
- **Amelia Earhart Adventure in the Sky**  
Biography by Francene Sabin and Joanne Mattern
- **Pippi Longstocking** (PDF of comprehension questions sent via email)  
by Astrid Lindgren
- **Stone Fox** (Word Doc. of comprehension questions sent via email)  
by John Reynolds Gardiner
- **Where the Red Fern Grows** (Word Doc. of comprehension questions sent via email)  
by Wilson Rawls
- **Helen Keller Girl of Courage**  
Biography by Francene Sabin and Joanne Mattern
- **The Chocolate Touch** (PDF of comprehension questions sent via email)  
by Patrick Skene Catling
- **Louis Braille: The Boy Who Invented Books for the Blind**  
by Margaret Davidson

Check out the Virginia Beach Public Library website.

<https://www.viriniapubliclibrary.info/summer-reading-2020/>

### **Recommended Math for students entering 4th grade**

Earn at least an 80% on each to help you prepare for 4th Grade. *If these are too easy, find the same skill at a 4th Grade Level- the numbers will not match.*

#### **D: Division:**

- 3.L8 - Divide three-digit numbers: word problems
- 3.D11 - Divisibility rules for 2, 5, and 10
- 3.D12 - Divisibility rules for 3, 6, and 9
- 3.D13 - Divisibility rules for 4 and 8

#### **M: Mixed Operations:**

- 3.M1 - Addition, subtraction, multiplication, and division facts
- 3.M5 - Multiplication and division facts up to 12: true or false?
- 3.M7 - Add, subtract, multiply, and divide

#### **S: Money**

- 3.S9 - Add and subtract money amounts
- 3.S10 - Add money amounts - word problems

#### **U: Data and Graphs**

- 3.U7 - Use bar graphs to solve problems

There are some really good apps out there as well, including Rocket Math, Math Racer, and Manic Math or students can continue to play on Prodigy. They will have access to Reflexmath.com until August. Of course, there is nothing wrong by going “old school” with traditional flashcards. **Continue to work on memorizing all multiplication and division facts by the end of the summer!**

## STUDENTS ENTERING 5th GRADE

### Required Reading and Math for Rising 5<sup>th</sup> Graders

#### Required Reading (Choose one novel)

*I Survived the American Revolution, 1776* by Lauren Tarshis  
*The Million Dollar Shot* by Dan Gutman  
*Matilda* by Roald Dahl  
*The One and Only Ivan* by Katherine Applegate  
*Ida B.* by Katherine Hannigan  
*Turtle in Paradise* by Jennifer L. Holm  
*From the Mixed-Up Files of Mrs. Basil E. Frankweiler* by E.L. Konigsburg  
*Holes* by Louis Sachar  
*Sideways Arithmetic from Wayside School* by Louis Sachar  
*The BFG* by Roald Dahl  
*My Side of the Mountain* by Jean Craighead George

Check out the Virginia Beach Public Library website.

<https://www.viriniapubliclibrary.info/summer-reading-2020/>

#### Required Math

One of the things we notice each school year is that instant recall of multiplication facts have a direct bearing on a student's success in mastering fractions, algebra, and basic math in general. a result, we have placed some multiplication facts games and timed online quizzes for students to take this summer on the SOS5 Site under Math (<https://sites.google.com/sosschool.org/sos5/home>). There are some really good apps out there as well, including Rocket Math, Times Tables Quiz, and (my favorite) Sushi Monster. course, there is nothing wrong by going "old school" with traditional flashcards or students can continue to play on Prodigy. The expectation is for each student to practice his multiplication facts through the 12's at least once a week this summer. When we return from summer break, we will be taking timed multiplication facts quizzes (30 problems in one minute) in the classroom once a week on Mondays.

Earn at least an 80% on each to help you prepare for 5th Grade. *If these skills are too easy, complete the same skill at a 5th Grade Level- the numbers will not match.*



**Place Value:**

4.A.20-Rounding up to millions place

**Operations:**

4.D.7-Identify factors

4.E.11-Divide larger numbers by 1-digit number

**Measurement:**

4.N.1-Measure using an inch ruler.

4.O.7-Elapsed time: word problems

**Fractions:**

4.P.17-Compare fractions using benchmarks.

4.Q.12-Add and subtract fractions with like denominators in recipes.

4.P.7-Identify equivalent fractions.

**Decimals:**

4.T.1-What decimal number is illustrated?

U.3-Add and subtract decimals: word problems

## MIDDLE SCHOOL MATHEMATICS

Students entering 6th Grade:

**REQUIRED Rising 6th Grade - Use the 5<sup>th</sup> Grade IXL Skills below**

**Required Reading (Choose one novel)**

*Freak the Mighty* by Rodman Philbrick

*The War that Saved My Life* by Kimberly Brubaker Bradley

*Rules* by Cynthia Lord

*Maniac Magee* by Jerry Spinelli

*Escape from Mr. Lemoncello's Library* by Chris Grabenstein

Complete with an 80% accuracy. If you find these skills too easy, please complete the same skill at a 6th Grade Level- the numbers may not match up.

**Place Value:**

5.A.2 - Place value practice

**Operations:**

5.O.2 - Add, subtract, multiply, and divide whole numbers

**Decimals:**

5.O.7 - Add, subtract, multiply, and divide decimals

**Fractions:**

5.O.9 - Add, subtract, multiply and divide fractions and mixed numbers

**Percents:**

R.2 - Convert between percents, fractions, and decimals

**Data and Graphs**

W.2 - Interpret line graphs

W.4 - Interpret bar graphs

W.16 - Circle graphs

**Measurement:**

Z.12 - Choose the appropriate metric unit of measure

Z.22 - Multi-step problems with customary or metric unit conversions

Students Entering Grade 7:

**[Rising Seventh grade IXL summer math](#) Please read attached link.**

IXL Summer Review for Pre-Algebra 7th Graders. Complete the 6th Grade Skills with 80% accuracy.

I.9 Improper fractions into mixed numbers

I. 14 mix of fraction and decimals in order

L. 14 Put a mix of decimals, fractions in order

G.G Circle graphs

O.10 Integers

R.8 Unit rates

T.8 Convert between customary and metric systems

T.18 Compare decimals and fractions on number lines

V.2 unit prices

Z.6 Equations

V.4 Bonus Unit prices with customary unit conversions (multi-step)

### **Rising Algebra Students - Use the 7<sup>th</sup> Grade IXL Skills below**

#### **Rising Algebra IXL summer math** **Please read attached**

IXL Summer review for Algebra. Please complete the following 7th Grade Skills with 80% accuracy:

C. 8 Evaluate numerical expressions with integers

D.8 put rational numbers in order

F.7 Evaluate negative exponents

F. 11 power rule

N.4 find the distance between two points

V. 16 add and subtract expressions

W. 8 two-step equations

W. 9 solve multistep equations

W.12 equations mixed review

Y.4 slope-intercept form

Bonus M.1 multistep word problems

### **MIDDLE SCHOOL LANGUAGE ARTS**

*You are required to **choose ONE novel from the list below (one that you have not previously read)** within your rising grade level. An assignment will be given within the first full week of school that will allow you to discuss and write about the novel you chose. Please be sure to utilize your note-taking skills to accomplish this assignment. 6th grade (brief notes, any style); 7th and 8th grade (brief annotation or Cornell notes with key points only).*

## **Rising 6<sup>th</sup> Grade**

*The Hound of the Baskervilles*, by Sir Conan Doyle

*The Lion, the Witch, and the Wardrobe*, by C.S. Lewis

*A Long Walk to Water*, by Linda Sue Park

*Echo*, by Pam Munoz Ryan

*Ghost*, by Jason Reynolds

*Esperanza Rising*, by Pam Munoz Ryan

## **Rising 7<sup>th</sup> Grade**

*Fever 1793*, by Laurie Anderson

*The Boy in the Striped Pajamas*, by John Boyne

*Walk Two Moons*, by Sharon Creech

*Echo*, by Pam Munoz Ryan

*Tangerine*, by Edward Bloor

*Do the Math: Secrets, Lies, and Algebra*, by Wendy Lichtman

## **Rising 8<sup>th</sup> Grade**

*The Book Thief*, by Markus Zusak

*Oliver Twist*, by Charles Dickens

*Crispin* by Avi

*Treasure Island*, by Robert Louis Stevenson (approx. 300-page version)

*Harbor Me* by Jacqueline Woodson

Check out the Virginia Beach Public Library website if you would also like to read beyond the middle school summer requirement. Enjoy your summer reading!

<https://www.viriniapubliclibrary.info/summer-reading-2020/>

## **Middle School Language Arts IXL Practice**

You are also expected to complete certain IXL standards for your upcoming grade level with **80% accuracy**. These standards include reading and writing strategies, vocabulary, and grammar/mechanics. If unable to reach the required goal, please complete the related standard for your previous grade level (the standard # will be different).

### **Rising 6<sup>th</sup> Grade IXL**

I2 - Read graphic organizers  
K1 - Distinguish facts from opinions  
O1 - Words with pre-  
KK1 - Capitalization

### **Rising 7<sup>th</sup> Grade IXL**

A1 - Determine main idea  
J1 - Ordered topics from broadest to narrowest  
P1 - Words with pre- and  
P2 - Words with re-  
HH1 - Identify prepositional phrases

### **Rising 8<sup>th</sup> Grade IXL**

A1 - Main idea  
J1 Order topics broadest to narrowest  
W1 - Find words using context  
MM1 and MM2- Restrictive and nonrestrictive elements