

2019 Math Summer Work

Hello Arrows Families,

We hope that your summer is off to a great start!

We want to make you aware of some important changes to the summer math assignment. In years past, the summer assignment has been a requirement and was graded and entered into RenWeb on the first day of school. After much thought and discussion, the math department has decided to make the summer assignments optional for families. Although the assignment will not be graded, we highly encourage you to teach your child the lessons and have them complete the suggested homework to ensure that there are no gaps in his/her mathematical understanding.

Again, the assignment will not be required. However, the chapters, suggested homework, and other notes will still be posted for you to use. Families may use this as a guide to complete the work, or you may choose to work at your own pace and with your own created homework assignments. It is important to know that the chapters listed for summer work **WILL NOT** be taught in class during the school year.

If you have any questions or concerns, please let us know!

Sincerely,

The Arrows Math Department

The math summer work is recommended, but not required. Students who complete the summer work below and turn it in upon the start of school in August will receive extra credit or a HW pass (teacher discretion)

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Math 5 Summer Assignments

Summer Work Math 5: Chapters 1, 11 and 14

Day #	Lesson Title	Assignment	#problems/lesson	day
Chapter 1				
Day 1	Millions	4-6, 8-32 even	16	31
	Billions	1-31 odd	15	
Day 2	Decimals	1-31 odd	15	32
	Equivalent decimals	1-49 every 3 rd (see note below)	17	
Day 3	Pos and neg numbers	1-52 every 3 rd	18	33
	Compare pos and neg	1-30 even	16	
Day 4	*Review/Test	1-32 all	32	32
*Bonus asgn:	Roman numerals	1-9 all		
Chapter 11				
Day 5	Quadrilaterals +	1-18	18	34
	Perimeter & Circum.	1-16	16	
Day 6	Classify Triangles	1-25 odd	13	23
	Area	1-19 odd	10	
Day 7	Area of Triangle	1-14	14	24
	Perimeter and Area	1-10	10	
Day 8	Review/Test	1-27	27	27
Chapter 14				
Day 9	3-D figures	1-22 even	11	27
	Prisms and pyramids	1-31 odd	16	
Day 10	surface area	1-5, 14-21	13	33
	Volume	1-22 (omit 10, 11)	20	
Day 11	more volume	1-13	13	30
	Rev/test	1-14, 17, 19, 20	17	

Every Third Problem means the student needs to complete problems: 1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52.....

2019 Math Summer Work

BJU 6 Suggested Summer Assignment

This year, summer assignments will not be collected and graded by your Arrows teacher. However, we highly encourage you to complete the assignment to ensure that there are no gaps in your child's mathematical understanding. Below you will find a suggested long-range plan for the summer work. You may use this as a guide for pacing and homework assignments, or you may complete at your own pace. It is important to note that the two chapters that are suggested for summer WILL NOT be covered in Class. We highly recommend that you teach the lessons using the teaching notes in the margin and have your child complete the skill checks as you progress through the lesson.

Along with summer work, **it is strongly encouraged that your child has their basic multiplication and division facts 1-12 memorized. They should be able to recall the facts automatically, without hesitation.** This will speed up their math work and allow them to focus on the new skills introduced and not be distracted by recalling basic facts.

Chapter 15 Statistics

Lesson #	HW	Notes/ Teacher Suggestions
138	1-21	Mean, Median, and Mode are used throughout this chapter. There are great videos online to help explain this concept. You can also print off extra problems that deal with just mean, median, and mode to make sure that they have mastered these skills.
139	1-23	J would be a great quick assessment to check for understanding.
140	1-24	J would be a great quick assessment to check for understanding
141	1-24	J would be a great quick assessment to check for understanding
142	1-28	J would be a great quick assessment to check for understanding
143	1-31	
144	1-31	This graph review is a great check point for understanding and will point out areas that the student may need to revisit before moving on.
145	1-21	

***You may choose to have students complete the Chapter 15 Review or any of the tests/quizzes included in the test booklet for this chapter to assess their learning.

Chapter 16 Probability

Lesson #	HW	Notes/ Teacher Suggestions
148	1-39	-This chapter requires students to have use fractions, decimals, and percents. You may want to review how to change fractions to decimals and percents and vice versa. There are great online video tutorials to demonstrate this concept. - J would be a great quick assessment to check for understanding.
149	1-26	
150	1-29	J would be a great quick assessment to check for understanding.
151	1-27	
152	1-43	

***You may choose to have students complete the Chapter 16 Review or any of the tests/quizzes included in the test booklet for this chapter to assess their learning.

2019 Math Summer Work

BJU Fundamentals of Math Suggested Summer Assignment

This year, summer assignments will not be collected and graded by your Arrows teacher. However, we highly encourage you to complete the assignment to ensure that there are no gaps in your child's mathematical understanding. Below you will find a suggested long-range plan for the summer work. You may use this as a guide for pacing and homework assignments, or you may complete at your own pace. It is important to note that the two chapters that are suggested for summer WILL NOT be covered in Class. We highly recommend that you teach the lessons using the teaching notes in the margin and have your child complete the skill checks as you progress through the lesson.

Chapter 8: Introduction to Geometry

Lesson (Days)	HW	Notes/ Teacher Suggestions
8.1 (2)	1-42	Spend adequate time practicing with a protractor. You can print some free worksheets or draw your own to provide more opportunities.
8.2 (1)	1-54	focus on vocabulary & the difference between complementary & supplementary
8.3 (2)	1-42	Evens only. Omit 24-27
8.4 (1)	1-40	Have students write the definitions and draw examples of vocabulary.
8.5 (1)	1-47	1-34 even, cumulative review problems 41-47. Since this chapter is being taught prior to instruction on square roots, you may need to review this skill.
8.6 (1)	1-47	1-24 even, 25-37, cumulative review problems 38-47
8.7 (1)	1-44	
8.8 (1)	1-36	
8.9 (1)	1-32	

***You may choose to have students complete the Chapter 8 Review or any of the tests/quizzes included in the test booklet for this chapter to assess their learning.

Chapter 9: Area and Volume

Lesson (Days)	HW	Notes/ Teacher Suggestions
9.1 (1)	1-32	1-24 even, 25-32 Create a formula sheet to use throughout the chapter.
9.2 (1)	1-32	1-16 even, 17-32
9.3 (1)	1-36	1-20 even, 22-36
9.4 (1)	1-32	1-6, 8-22 even, 23-32
9.5 (1)	1-50	1-32 even, cumulative review problems 43-50
9.6 (2)	1-29	The Support Materials CD has nets that can be used for deeper understanding
9.7 (1)	1-32	1-32 even, cumulative review problems 44-46
9.8 (1)	1-48	1-28 even, 29-36, cumulative review problems 42-48

***You may choose to have students complete the Chapter 9 Review or any of the tests/quizzes included in the test booklet for this chapter to assess their learning.

2019 Math Summer Work

Pre-Algebra Summer Assignments

The math summer work is recommended, but not required. Students who complete the summer work below and turn it in in August will receive extra credit.

Chapter, Lesson, and Assigned problems	<u>Parent Signature</u> (Completed & Corrected)
We will not be covering Chapters 10 or 13 in class. However, this material will be tested on End of Grade testing. <i>Note: The number at the end of the assignments in parenthesis gives the total number of problems for the assignment.</i>	
Chapter 10, Lesson 1: 1-6, 15-30 (22)	
Chapter 10, Lesson 2: 1-5, 11-15,21 22 (12)	
Chapter 10, Lesson 3: 1-11 odd, 12-16, 17,20,23, 27 (15)	
Chapter 10, Lesson 4: 1-10, 11,15,17,21,23,27 35-39 (21)	
Chapter 10, Lesson 5: 1-29 odd (15)	
Chapter 10, Lesson 6: 1-35 odds (18)	
Chapter 10, Lesson 7: 1-10, 11-31 odd (20)	
Chapter 10, Lesson 8: 2-36 evens (18)	
Chapter 10, Lesson 9: 1- 29 odds (15)	
Chapter 10 review: odds (25)	
Chapter 10 test (25)	
Chapter 13, Lesson 1: 2-30 evens (15)	
Chapter 13, Lesson 1 2-30 evens (15)	
Chapter 13, Lesson 2 2-30 evens (15)	
Chapter 13, Lesson 3 2-26 evens (13)	
Chapter 13, Lesson 4 2-30 evens (15)	
Chapter 13, Lesson 5 2-28 evens (14)	
Chapter 13, Lesson 6 2-32 evens (16)	
Chapter 13, Lesson 7 2-22 evens (11)	
Chapter 13, Lesson 8 2-32 evens (16)	
Chapter 13 Review evens (19)	
Chapter 13 test (25)	

2019 Math Summer Work

ALGEBRA 1 Summer Assignments

To: students entering Algebra 1 at Arrows Academy August 2019

There will be NO mandatory summer math work for this course; however, whenever you come to class the first few weeks of school, the first 2 chapters of the BJU Algebra 1 textbook will be covered at a brisk pace. It is recommended that you flip through chapters 1 and 2 prior to the first week of Arrows classes and scan the pages for the skills that are covered there.

The expectation is that you are very familiar and competent with the following skills and concepts entering Algebra 1:

- +, -, x, ÷ whole numbers;
- +, -, x, ÷ fractions;
- +, -, x, ÷ decimals;
- +, -, x, ÷ integers;
- PEMDAS with order of operation involving exponents and absolute value (see page 40 #1-12 and page 42 # 36-43);
- Translating basic English phrases into algebra language with variables (see page 48);
- Evaluating simple expressions (see page 48);
- Solving one-step equations (see page 67 #25-36).

Plan to cover chapters 1 and 2 at a quick pace during the month of August. Refreshing your “math muscles” before the first week of Algebra 1 classes is highly recommended!

If you have any questions, please contact the Columbia campus Algebra 1 teacher, Kelli McClure, at arrowsteacher.mcclure@gmail.com.

Resources that are helpful for covering the concepts in BJU Algebra 1 Edition 3 are the following: (1) Rick Scarfi YouTube teaching videos and (2) kutasoftware.com website that gives practice worksheets with solution pages.

Enjoy your summer and I look forward to seeing you in August!

Kelli McClure

Columbia campus

arrowsteacher.mcclure@gmail.com

2019 Math Summer Work

ALGEBRA 2 Summer Assignments

Dear Algebra 2 Student,

Start by completing the following test <https://academy.hslda.org/files/HSLDAAIgebra-2-Readiness-Test.pdf> to help determine if you are ready for Algebra 2. If you struggle with this test, please work through Chapters 1 and 2 at your own pace. Algebra 2 assumes that you have all the basic skills mastered.

There will be NO mandatory summer math work for this course; however when you come to class the first week of school, I will move very briskly through the first two chapters of the BJU Algebra 2 textbook. I recommend that you flip through Chapters 1 and 2 scanning the pages for the skills that are covered there. My expectation is that you are very familiar and **competent** with the following skills and concepts. This is our foundation for the year.

Chapter 1

1. Can you list and define the major subsets of the real number system? (i.e. Real, Rational, Irrational, Integers, Whole, and Counting #'s) Section 1.1
2. Are you proficient with your rules of exponents? Section 1.3
3. Are you proficient with PEMDAS (order of operations)? Section 1.2
4. Can you solve linear equations and inequalities? Section 1.4 and 1.6
5. Can you write equations and use them to solve word problems? Section 1.5

Chapter 2

1. Can you identify relations and functions and state their domain and range? Section 2.1
2. Can you use function notation to evaluate functions? Section 2.1
3. Do you know how to determine the slope and x- and y-intercepts of a line? Section 2.2
4. Do you know how to graph linear equations? Section 2.2
5. Can you determine the equation of a line if given two points? Section 2.3
6. Can you create scatterplots and linear models given data? Section 2.4
7. Can you graph and write function rules for constant, piecewise, greatest integer, and absolute value functions? Section 2.5
8. Can you find the length and the midpoint of a segment given its endpoints? Section 2.7

If you have trouble with any of the above concepts, look at the examples in the textbook, check out the following websites, or ask a friend or parent for help. Also, make sure you have a graphing calculator (TI-83, TI-83+, or TI-84 preferred). You can buy one on www.ebay.com for a good discount.

Top Online Resources:

<http://patrickjmt.com>

<http://www.Mathisfun.com/>

<http://ixl.com>

<http://www.studentguide.org/a-complete-list-of-online-math-resources/>

Blessings,

Susan Yoder

veggiesrus28@hotmail.com

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Pre-Calculus Summer Assignments

Lesson	Description	Problems Assigned	Parent Signature (Completed & Corrected)
2-1	Relations	Pgs.48-50 #4-8, & 12-28 even	
2-2	Linear Functions	Pgs.55-57 #2-30 even	
2-3	Quadratic Functions	Pgs.63-64 #2-30 even	
2-4	Polynomial Functions	Pgs.70-71 #2-26 even	
2-5	Factoring Higher-Degree Polynomials	Pg. 76-77 #2-26 even	
2-6	Zeros of Polynomial Functions	Pgs.84-85 #2-28 even	
2-7	Graphing Polynomial Functions	Pgs. 96-98 #2-30 even	
Chapter 2 Review	Review of Chapter 2 Concepts	Pgs.102-103 #2-30 even	

2019 Math Summer Work

Geometry – Columbia Campus

“Geometry without algebra is dumb. Algebra without geometry is blind.”
- physicist and mathematician David Hestenes

Geometry takes the basic skills and concepts your student learned in Algebra and begins applying them to demonstrate the ways lines, shapes, angles, and points relate.

In some very practical ways throughout the year, we will be studying how Geometry shows itself in real world situations, and we will have some creative fun doing it.

For us to be able to hit the ground running this year, it is vitally important that your student be familiar with some key terms that we will be using throughout the year.

Please **print the following three pages** and have your student **look through Chapter 1** of BJU Geometry (pgs. 1-51) and **write the definition for each term** as outlined in the chapter.

Also, please make sure your student has the following supplies for class:

- Ruler (inch & centimeter markings)
- Protractor
- Compass
- Notebook Paper
- Graph Paper
- TI-83, TI-83 Plus or TI-84 graphing calculator
- Eleven (11) yellow 3-prong folders with pockets

If you have any questions, please contact the Columbia campus Geometry teacher Dave Wilson at DaveWilson.Arrows@gmail.com.

Enjoy your summer and I look forward to seeing you in August!

Dave Wilson

2019 Math Summer Work

Name: _____

Set	
Elements	
Venn diagram	
Union	
Intersection	
Complement	
Point	
Line	
Plane	
Collinear Points	
Concurrent Lines	
Coplanar Points	
Coplanar Lines	
Skew Lines	
Parallel Lines	
Parallel Planes	
Postulate	
Theorem	

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Half-line	
Ray	
Segment	
Half-plane	
Angle	
Side	
Vertex	
Interior of an Angle	
Exterior of an Angle	
Coordinate	
Length	
Congruent Segments	
Midpoint	
Congruent Angles	
Adjacent Angles	
Circle	
Region	
Polygon	
Equilateral Polygon	

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Equiangular Polygon	
Regular Polygon	
Chord	
Diameter	
Arc	
Circumference	
Surface	
Sphere	
Cone	
Cylinder	
Pyramid	
Prism	
Polyhedron	
Regular Polyhedron	