



River City Science Academy Mandarin

10911 Old St. Augustine Rd. Jacksonville, FL 32257

Suggested Summer Work For Rising 8th Graders

**Practice Reading, Math,
Science and Social Studies
Skills**

SCIENCE ACADEMY

The following reading/math assignments are targeted to help you get ready for next year by keeping up with your skills. You may complete some or all the following during your break

IXL Recommendations for English Language Arts Grade 8

Reading Strategies:

1. G.1 Analyze Short Stories
2. C.1 Identify Author's Purpose
3. B.2 Determine the Theme of Short Stories
4. H.1 Read and Understand Info Passages

Writing Strategies:

5. O.1 Identify Thesis Statements
6. O.6 Identify Counterclaim

Vocabulary:

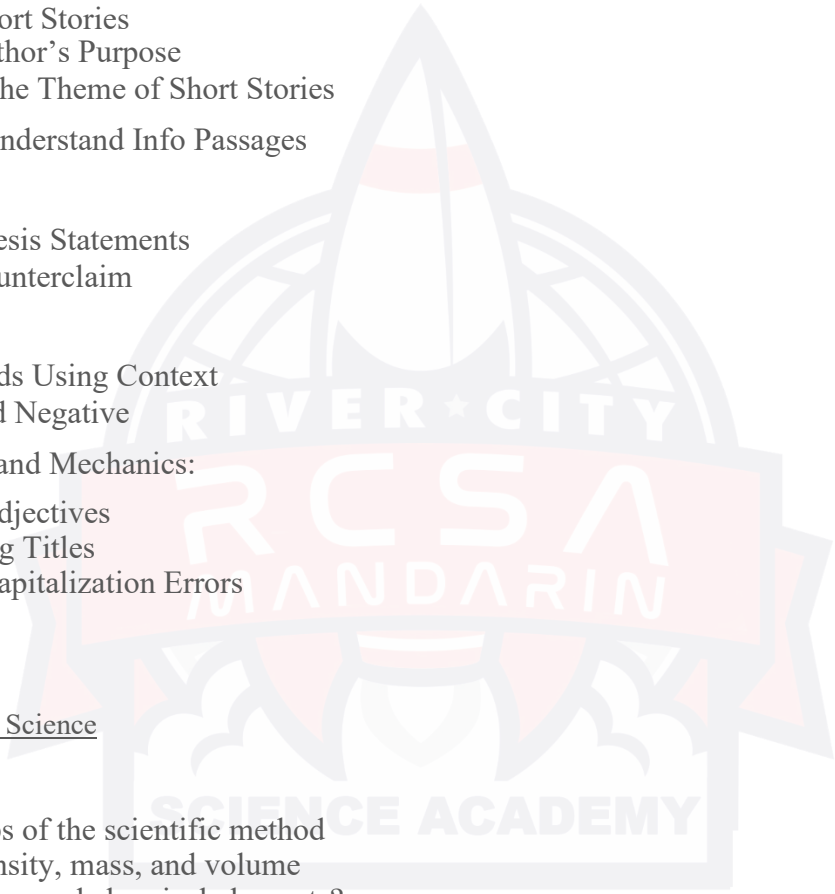
7. AA.1 Find Words Using Context
8. X.2 Positive and Negative

Connotation Grammar and Mechanics:

9. LL.1 Identify Adjectives
10. VV.1 Formatting Titles
11. UU.1 Correct Capitalization Errors

IXL Recommendations for Science

1. A.1 Identify steps of the scientific method
2. D.1 Calculate density, mass, and volume
3. E.1 What are atoms and chemical elements?
4. I.2 Compare thermal energy transfers
5. M.1 Identify common and scientific names
6. O.1 Understanding cells
7. U.1 How do plants use and change energy?
8. V.1 Describe populations, communities, and ecosystems
9. W.1 How does matter move in food chains?
10. C.1 Label parts of water cycle diagrams



IXL Recommendations for Math 3-Pre-Algebra

1. A.1 Factors #7K3
2. A.5 Greatest Common Factor #3MB
3. A.6 Least Common Multiple #2QK
4. B.1 Integers on a Number Line #EZE
5. C.1 Integer addition and subtraction rules #YDA
6. C.6 Integer multiplication and division rules #XLP
7. D.1 Understanding Exponents #VFV
8. G.1 Write fractions in lowest terms #ZGT
9. G.2 Least Common Denominator #46Z
10. P.1 Coordinate Plane Review #T6E
11. P.3 Follow directions on a coordinate plane #2HR
12. X.1 Write variable expressions: one operation #PEZ

*Be sure to click on “Learn with an Example” first. If you have completed this lesson, continue working toward mastery of 80% or greater.

IXL Recommendations for Algebra

1. G.1 Coordinate Plane Review
2. J.3 Solve One-Step Linear Equations
3. J.4 Solve Two-Step Linear Equations
4. P.2 Arithmetic Sequences
5. P.3 Geometric Sequences
6. S.3 Find the Slope of a Graph
7. S.4 Find the Slope from Two Points
8. S.8 Slope-Intercept Form: Write an Equation from A Graph
9. BB.1 Characteristics of Quadratic Functions: Graphs
10. BB.2 Characteristics of Quadratic Functions: Equations

IXL Recommendations for Geometry

1. B.6 Perpendicular Bisector Theorem
2. C.2 Angle Measures
3. E.1 Coordinate Plane Review
4. F.2 Triangle Angle-Sum Theorem
5. F.3 Exterior Angle Theorem
6. M.2 Triangles and Bisectors
7. M.4 Angle-Side Relationships in Triangles
8. R.1 Trigonometric Ratios: Sin, Cos, and Tan
9. S.10 Area and Perimeter of Similar Figures
10. T.5 Volume of Prisms and Cylinders
11. T.6 Volume of Pyramids and Cones
12. T.7 Volume of Spheres