Course Description
The Liberty University Online Academy's kindergarten math course engages students in various areas of mathematics. This course gives students an opportunity to connect a real-life Biblical worldview with everyday math situations. Students are provided with engaging, exciting, and interactive lessons that build upon one another.

Rationale
The study of math gives the students the opportunity to be actively engaged in using concrete materials to explore and learn about numbers and shapes. Students will sort; collect data for graphing, and estimate measurements. Addition, subtraction, and fractions will be introduced. Patterns and symmetry will be explored. Students will also use standard and nonstandard units of measurement.

Prerequisite
None

Biblical Integration Outcomes
A. The student will demonstrate an understanding of a biblical worldview as it relates to patterns in creation.
B. The student will investigate and understand the numbered days of creation in Genesis.
C. The student will demonstrate an understanding how God has organized our lives in days, weeks, months, and years.

Measurable Learning Outcomes
A. The student will demonstrate an understanding of using tally marks to count.
B. The student will demonstrate an understanding of counting forward.
C. The student will demonstrate an understanding of adding two numbers together to produce a sum.
D. The student will demonstrate an understanding of subtracting a smaller number from a larger number to produce a difference.
E. The student will demonstrate an understanding of ones and tens place value.
F. The student will demonstrate an understanding of ½ and ¼ fractions.
G. The student will demonstrate an understanding of counting money.
H. The student will demonstrate an understanding of telling time to the hour.
I. The student will demonstrate an understanding of collecting data to be used in a graph.
J. The student will demonstrate an understanding of 2D shapes.
K. The student will demonstrate an understanding of standard units of measure.

Course Materials

See LUOA’s Systems Requirements for computer specifications necessary to operate LUOA curriculum. Also view Digital Literacy Requirements for LUOA’s expectation of users’ digital literacy.

This course contains additional physical materials. See the materials page toward the end of this syllabus for a listing of course materials.

This course makes use of third-party digital resources to enhance the learning experience. LUOA staff and faculty have curated these resources. Students can safely access them to complete coursework. Please ensure that internet browser settings, pop-up blockers, and other filtering tools allow for these resources to be accessed. See Technologies and Resources Used in this Course below for a specific list.

- Note: Embedded YouTube videos may be utilized to supplement LUOA curriculum. YouTube videos are the property of the respective content creator, licensed to YouTube for distribution and user access. As a non-profit educational institution, LUOA is able to use YouTube video content under the YouTube Terms of Service. For additional information on copyright, please contact the Jerry Falwell Library.

Technologies and Resources Used in this Course

The following resource(s) are used throughout this course:

- Education City
- Reading Eggs

Course Grading Policies

The student’s grades will be determined according to the following grading scale and assignment weights. The final letter grade for the course is determined by a 10-point scale. Assignments are weighted according to a tier system, which can be referenced on the Grades Page in Canvas. Each tier is weighted according to the table below. Items that do not affect the student’s grade are found in Tier 0.
Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
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<tr>
<td>B</td>
<td>80-89%</td>
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<tr>
<td>C</td>
<td>70-79%</td>
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<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>0-59%</td>
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</tbody>
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Assignment Weights

<table>
<thead>
<tr>
<th>Tier</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 0</td>
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<tr>
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<tr>
<td>Tier 2</td>
<td>35%</td>
</tr>
<tr>
<td>Tier 3</td>
<td>40%</td>
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</tbody>
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Course Policies

Students are accountable for all information in the Student Handbook. Below are a few policies that have been highlighted from the Student Handbook.

Types of Assessments

To simplify and clearly identify which policies apply to which assessment, each assessment has been categorized into one of four categories: Lesson, Assignment, Quiz, or Test. Each applicable item on the course Modules page has been designated with an identifier chosen from among these categories. Thus, a Quiz on the American Revolution may be designated by the title, “1.2.W Quiz: The American Revolution.” These identifiers were placed on the Modules page to help students understand which Honor Code and Resubmission policies apply to that assessment (see the Honor Code and Resubmission policies on the pages that follow for further details).

- **Lesson:** Any item on the Modules page designated as a “Lesson”
  These include instructional content and sometimes an assessment of that content. Typically, a Lesson will be the day-to-day work that a student completes.

- **Assignment:** Any item on the Modules page designated as an “Assignment”
  Typical examples of Assignments include, but are not limited to, papers, book reports, projects, labs, and speeches. Assignments are usually something that the student should do his or her best work on the first time.

- **Quiz:** Any item on the Modules page designated as a “Quiz”
  This usually takes the form of a traditional assessment where the student will answer questions to demonstrate knowledge of the subject. Quizzes cover a smaller amount of material than Tests.

- **Test:** Any item on the Modules page designated as a “Test”
  This usually takes the form of a traditional assessment where the student will answer questions to demonstrate knowledge of the subject. Tests cover a larger amount of material than Quizzes.

Resubmission Policy

Students are expected to submit their best work on the first submission for every Lesson, Assignment, Quiz, and Test. However, resubmissions may be permitted in the following circumstances:

- **Lesson:** Students are automatically permitted two attempts on a Lesson. The student may freely resubmit for their first two attempts without the need for teacher approval.
• **Assignment:** Students are intended to do their best work the first time on all Assignments. However, any resubmissions must be completed before the student moves more than one module ahead of that Assignment. For example, a student may resubmit an Assignment from Module 3 while in Module 4 but not an Assignment from Modules 1 or 2. High School students may not resubmit an Assignment without expressed written permission from the teacher in a comment.

• **Quiz:** Students may NOT resubmit for an increased grade.

• **Test:** Students may NOT resubmit for an increased grade.

If a student feels that he or she deserves a resubmission on a Lesson, Assignment, Quiz, or Test due to a technical issue such as a computer malfunction, the student should message his or her teacher to make the request, and that request will need to be approved by a Department Chair.

**Consequences for Violations to the Honor Code**

Every time a student violates the Honor Code, the teacher will submit an Honor Code Incident Report. The Student Support Coordinator will review the incident and allocate the appropriate consequences. Consequences, which are determined by the number of student offenses, are outlined below:

• **Warning:** This ONLY applies to high school Lessons and elementary/middle school Assignments and Lessons. Students should view these actions as learning opportunities.
  - **Lessons:** A zero will be assigned for the question only.
  - **Elementary/Middle School Assignment:** The student must redo his or her work; however, the student may retain his or her original grade.

• **1st Offense:**
  - **Lesson, Quiz, or Test:** The student will receive a 0% on the entire assessment.
  - **Assignment:** The student will either:
    - Receive a 0% on the original assignment
    - Complete the Plagiarism Workshop
    - Retry the assignment for a maximum grade of 80%

• **2nd Offense:** The student will receive a 0% and be placed on academic probation.

• **3rd Offense:** The student will receive a 0% and the Faculty Chair will determine the consequences that should follow, possibly including withdrawal from the course or expulsion from the academy.
Materials List
Kindergarten Math

Dry beans (or anything that can be used as counters in math)
Craft Sticks
Multicolored Construction Paper
Scissors
Glue- both liquid and glue sticks
Crayons or Markers
Paper Plates
Printer
Printer Paper
Tape
Yarn
Oreos
Animal Crackers

Cotton Balls
Metal brad *also used in Bible
Plastic Easter eggs
Thin Permanent Marker
Pattern blocks (amazon)
Marshmallows
Twist ties
Straws
Ruler
White tempera paint
Multicolored tissue paper
Wax paper
Colored Cereal
Empty Egg Carton
Printer
Ability to upload projects
Scope and Sequence
Kindergarten Math

Module 1: Whole and Ordinal Numbers, Estimation
Week 1: Numbers
Week 2: Estimation
Week 3: Ordinal Numbers
Week 4: Counting

Module 2: Addition and Subtraction
Week 5: Adding
Week 6: Subtracting
Week 7: Number Stories
Week 8: Review

Module 3: Place Value and Fractions
Week 9: Place Value
Week 10: Fractions
Week 11: Review

Module 4: Money
Week 12: Penny/Nickel
Week 13: Dime
Week 14: Quarter
Week 15: Using Money

Module 5: Time
Week 16: Hour Hand
Week 17: Minute Hand
Week 18: Calendar

Module 6: Graphing and Probability
Week 19: Time to the Hour/Half Hour
Week 20: Data
Week 21: Graphing
Week 22: Probability

Module 7: Shapes
Week 23: Shape Sort
Week 24: 3D Shapes
Week 25: Fun with Shapes
Week 26: Shape Activities

Module 8: Measurement and Symmetry
Week 27: Measurement
Week 28: Symmetry
Week 29: Creating Symmetry

Module 9: Sorting, Classifying, Patterning
Week 30: Sorting
Week 31: Classifying
Week 32: Patterns
Week 33: Pattern Walk

Module 10: Review
Week 34: Review Modules 1-3
Week 35: Review Modules 4-6
Week 36: Review Modules 7-9