Circle 1 Syllabus

Course Summary

This dynamic math course is designed for students ages 5 to 7 who have some early experience with numbers and operations. Ideal for young learners who can already count, add, and subtract within 20, this course covers Grade 1 topics and dives deeper with exposure to variables, problem-solving, and logical thinking. Aligned with the Common Core State Standards for Grades 1 and 2, the curriculum incorporates engaging **problem-solving exercises, logic puzzles, and friendly competition-style challenges** to keep young minds active and inspired. It's the perfect opportunity to build a strong foundation and foster a love for math!

Focus Areas at this Level

Concepts, skills, and learning tools students see in this course include, but are not limited to:

- Comparing and counting with numbers up to 100
- Carrying and borrowing with adding and subtracting under 100
- Defining shapes and units of measurement

Expected Outcomes

Students will be **expected to adequately perform in or explain** the following areas after course completion:

- Comparing and counting with numbers up to 100
- Carrying and borrowing with adding and subtracting under 100
- Describing place value
- Identify odd and even numbers
- Cut numbers in half and double numbers under 100
- Identify simple fractions from images
- Add simple fractions with the same denominator
- Solve for missing values in simple equations
- Collecting and interpreting data using tally marks and bar graphs
- Defining shapes and units of measurement
- Find the area of simple rectangular and compound shapes

Pre Requisites

Students registering for this course should be **comfortable with the following Math**:

- Adding and Subtracting with 2-digit numbers up to 20
- Counting by 1: up to 20 and back down to 0
- Comparing numbers and size (equal, greater than and less than)
- Place value using ones and tens

Students should also be **willing and able to**:

- Communicate verbally at a basic level
- Learn to read and write numbers and simple words
- Be respectful of other students in their classes
- Practice writing things down on paper
- Share their thoughts with the instructors to help them discover solutions to their problems

- Take constructive criticism when it comes to their learning habits

Course Materials (Required)

- All classes will be taught online, via **Zoom**. Your student will need a device with a microphone and camera.
- Parents are expected to have read and understood the Parent Handbook
    - Parents should review the expectations in class with their student(s)
    - Parents of this age group will need to help their students learn the technology used on the student's end

Students should also have access to:

- Countable objects (dry beans, large beads, blocks, rods)
- A nearby parent or guardian to:
    - help the student focus
    - help operate the technology (muting and annotating at appropriate times)
    - restate a question if the teacher is busy helping another student
    - this requirement should ease off as the student becomes more comfortable with technology and our class format
- Ruler
- Pencils
- Eraser
- Paper
- Colored pencils or markers
- Reliable internet connection and digital device capable of using Zoom effectively

Homework Expectations

Homework at EMC is set up to be flexible for the needs of your student. Usually we feel students fall into three general categories:

- EMC is **replacing public school or** accelerating my student for **testing out of Math** in the future
    - All Homework is **mandatory**
- EMC is helping **improve my grades** or **skills**
    - Homework is **highly recommended**, we recommend concentrating on school homework first
- EMC is for **interest's sake** and/or for **exposure** to problem solving **before seeing it in school**
    - Homework is **recommended, yet optional**

Homework Delivery

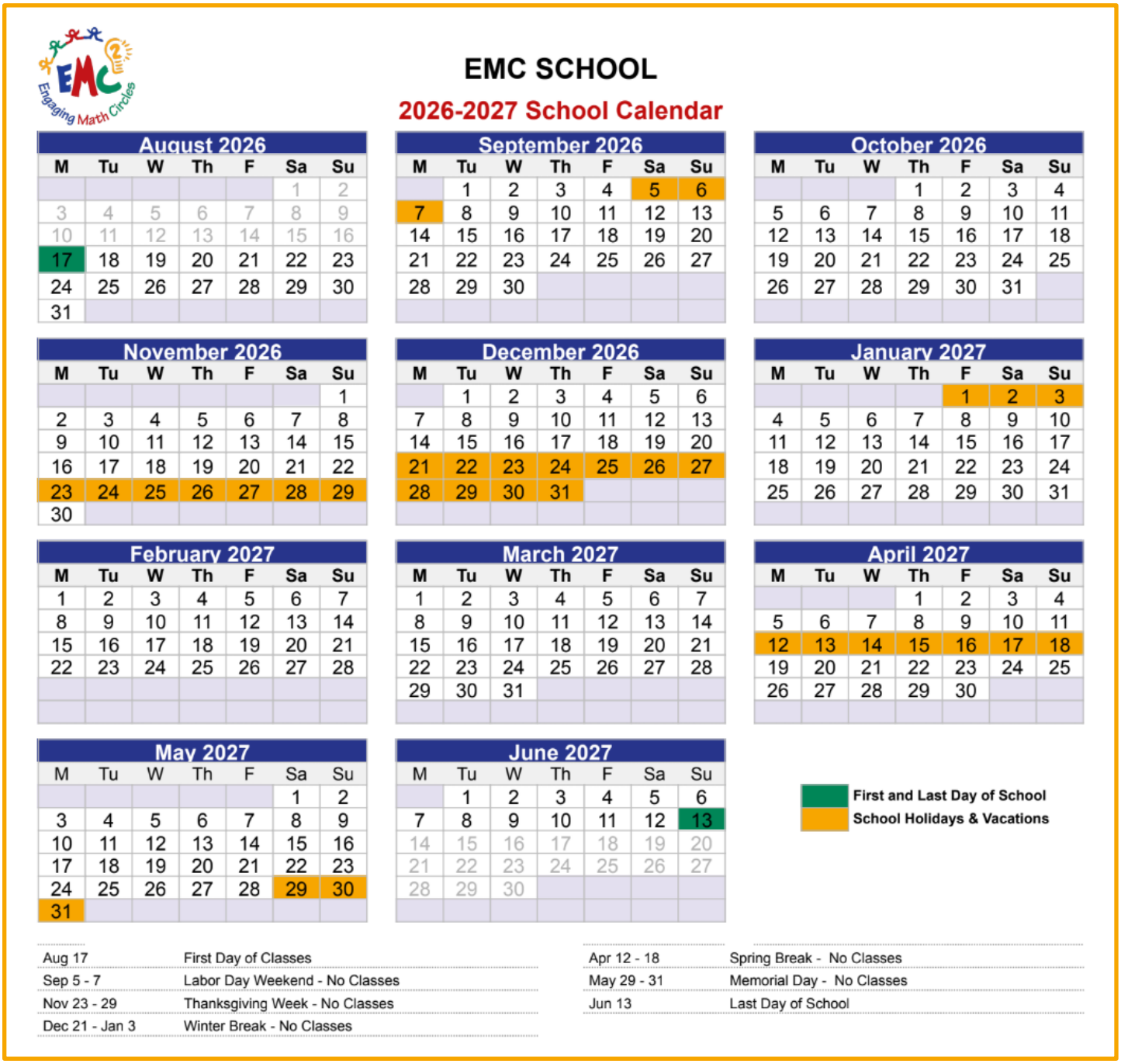
Homework is delivered in a two main ways:

- **Practice Homework**
    - Nearpod, an interactive slideshow, facilitates self-paced learning including lesson review and extra practice at the end of each Content section
        - Lesson slides you already may have seen are provided as reference for review
        - Draw It, Quiz or Matching slides are the **mandatory practice**
        - "Extras" are extra practice and competition style questions to keep other skills sharp
    - PDFs to download and print the lesson or questions are also made available
- **Assessment Homework** (aka Quizzes, Tests)
    - Canvas, set of questions to show instructors a student's understanding of the content
    - Auto-graded upon submission

- Instructors adjust grades after seeing results to give partial marks where appropriate, and plan to cover certain problem areas in the Homework Check portion of next class

Course Calendar

On yellow dates on the calendar below, no classes are held. Some days of the week (Sat, Sun, Mon) have less classes per year. These courses will have slightly condensed in-class schedules, and your instructor will let you know which homework assignments to do each week.



EMC SCHOOL

2026-2027 School Calendar

August 2026

M	Tu	W	Th	F	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September 2026

M	Tu	W	Th	F	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

October 2026

M	Tu	W	Th	F	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

November 2026

M	Tu	W	Th	F	Sa	Su
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

December 2026

M	Tu	W	Th	F	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

January 2027

M	Tu	W	Th	F	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

February 2027

M	Tu	W	Th	F	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

March 2027

M	Tu	W	Th	F	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April 2027

M	Tu	W	Th	F	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May 2027

M	Tu	W	Th	F	Sa	Su
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June 2027

M	Tu	W	Th	F	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

First and Last Day of School
School Holidays & Vacations

Aug 17	First Day of Classes
Sep 5 - 7	Labor Day Weekend - No Classes
Nov 23 - 29	Thanksgiving Week - No Classes
Dec 21 - Jan 3	Winter Break - No Classes
Apr 12 - 18	Spring Break - No Classes
May 29 - 31	Memorial Day - No Classes
Jun 13	Last Day of School

Course Itinerary

Chapter	Lesson	Class Dates	Focus Skills
Chapter 1: Counting	1) Numerals, Digits, Numbers	Aug 17- Aug 23	• difference between a numeral (symbol), digit (place value) and number (full value)
	2) Counting to 20	Aug 24 - Aug 30	• names of numbers up to 20 • place value: ones and tens
	3) Counting to 100	Aug 31 - Sept 6 OFF Sat Sept 5, Sun Sept 6 Labor Day	• names of numbers up to 100 • place value: hundreds as ten 10s
Chapter 2: Ordering Numbers	4) Greater Than, Less Than, Equal	Sept 7 - Sept 13 OFF Mon Sept 7 Labor Day	• greater than and less than • equality of value vs equality of properties
	5) Ordinals	Sept 14 - Sept 20	• learning the names for ordered objects (first, second, third) • ordering objects
	6) Place Value	Sept 21 - Sept 27	• naming comparing and ordering numbers based on their place values
Chapter 3: Addition and Subtraction	7) Operations	Sept 28 - Oct 4	• being able to write and solve simple addition and subtraction sentences • symbols as operators
	8) Number Lines and Tools	Oct 5 - Oct 11	• using number lines to visualize and solve operations • base 10 blocks to visualize carrying
	9) Fact Families	Oct 12 - Oct 18	• relating addition and subtraction sentences that use the same numbers • make related number sentences
	10) Techniques	Oct 19 - Oct 25	• “ninja chop” for visual subtraction • add the ones, add the tens for multiple sums
Chapter 4: Stacking Algorithms	11) Stacking to Add and Subtract	Oct 26 - Nov 1	• learn the basic stacking algorithm for addition and subtraction • (no carrying or borrowing)
	12) Addition Can Carry	Nov 2 - Nov 8	• how to carry a ten using the stacking addition algorithm
	13) Subtraction Can Borrow	Nov 9 - Nov 15	• how to borrow a ten using the stacking subtraction algorithm

Chapter 5: Patterns	**14) Number Lines and Tools**	Nov 16 - Nov 22	● using number lines to connect number patterns
Holiday	**Thanksgiving**	**OFF** Nov 23 - Nov 29	**Have a great week!**
Chapter 5: Patterns	**15) General and Number Patterns**	Nov 30 - Dec 6	● define patterns ● solve simple patterns involving shapes, numbers and other objects
	16) Natural Patterns	Dec 7 - Dec 13	● discovering patterns in nature ● introduce symmetry
Midterm Review		Dec 14 - Dec 20	● Review of Chapters 1 through 5
Holiday	**Winter Break**	**OFF 2 WEEKS** Dec 21 - Jan 3	**Have a great break!**
Chapter 5: Patterns	**18) Odds and Evens**	Jan 4 - Jan 10	● identify whether a number is odd or even based on its last digit ● even numbers as an equal split
Chapter 6: Splitting a Whole	**19) Halves and Doubles**	Jan 11 - Jan 17	● split even numbers in half ● double numbers under 100
	20) Parts and Wholes	Jan 18 - Jan 24	● define parts vs wholes ● write fractions based on shaded shapes
	21) Adding Simple Fractions	Jan 25 - Jan 31	● adding simple fractions (same denominator) together by adding their numerators
	22) Fractions on a Number Line	Feb 1 - Feb 7	● skip counting by a fraction on a number line ● missing fractions on number lines
Chapter 7: Equations	**23) Missing Values**	Feb 8 - Feb 14	● finding values using guess and check
	24) Equations as Number Sentences	Feb 15 - Feb 21	● writing equations from given information ● solving equations
	25) Missing Values in Equations	Feb 22 - Feb 28	● solving equations with unknowns ● simple systems of equations

Chapter 8: Data and Measurement	**26) Data Collection**	Mar 1 - Mar 7	● how to collect data using tallies ● how to graph data on a bar graph
27) Spring Review		Mar 8 - Mar 14	● Review of Chapters 6 through 9 ● **Math Map** Where does this go?
Chapter 8: Data and Measurement	**28) Length, Weight**	Mar 15 - Mar 21	● how to measure centimeters and inches ● how to weigh in pounds on an analog scale
Chapter 9: Time	**29) Clocks (AM/PM)**	Mar 22 - Mar 28	● telling time as “number o’clock” ● the hour hand on an analog clock ● AM vs PM
	30) Telling Time	Mar 29 - Apr 4	● time to the minute ● the minute hand of an analog clock
	31) Calendars	Apr 5 - Apr 11	● names of the days and months ● naming the full date and time from a calendar and clock
Holiday	**Spring Break**	**OFF** **Apr 12 - Apr 18**	**Have a great week!**
Chapter 10: Money	**32) Dollars and Cents**	Apr 19 - Apr 25	● using US currency bills and coins ● counting dollars and cents up to $100
	33) Exchanging Money	Apr 26 - May 2	● exchanging dollars for 100 cents and vice versa ● making change for small amounts
	34) Money and Time Patterns	May 3 - May 9	● finding missing values in different patterns involving time ● rates as money over time
Chapter 11: Shapes	**35) Parts of Shapes**	May 10 - May 16	● names of the parts of shapes ● define figure versus shape
	36) 2D Shapes	May 17 - May 23	● names of the simple shapes ● introduce up to a decagon
	37) 3D Shapes	May 24 - May 30 **OFF Sat Sun May 29 and 30 Memorial Day**	● introduce cubes, spheres, cones, cylinders, prisms ● introduce nets(match nets to shapes)
	38) Composite Shapes	May 31 - June 6 **OFF Mon May 31 Memorial Day**	● how to put together complex shapes ● how to cut up shapes into simpler ones ● area of simple shapes

39) Final Review	June 7 - June 13	● Review of Chapters 6 through 11