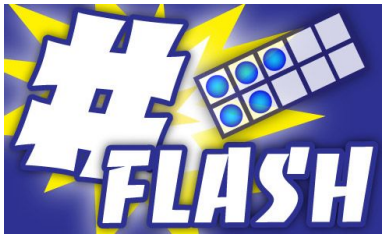
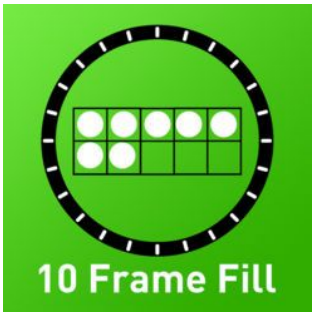
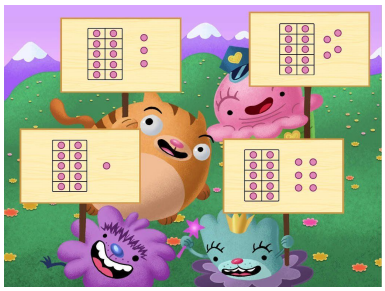
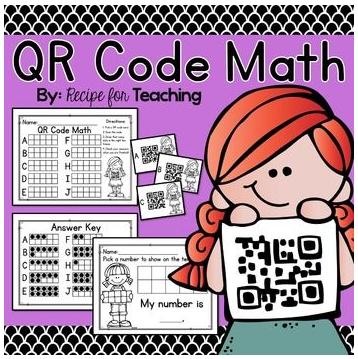
Math Apps

Becoming fluent in 10 is a fantastic tool for mental math, and when students begin adding larger numbers (especially in other grades), having mastered 10 is critical!

Making Ten / Ten Frames

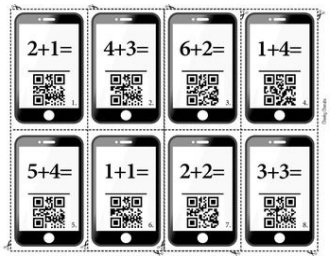
App	Description
# Flash 	Base ten blocks or ten frames flash on the screen for a set time limit. The student is then asked to identify what number was shown. Watch carefully! After the timer runs out, enter the correct number to proceed to the next flash. The timer decreases with each correct answer and increases with each incorrect answer. At the end of the interactive, data is displayed showing the incorrect and correct answers and what time limit the slide was in view. http://www.fuelthebrain.com/games/number-flash/
Ten Frame Fill 	This is a great (and FREE) app that gives students practice filling 10 Frames and making combinations to 10. There are lots of settings for how the frame fills, wait time, what equations (if any) you want shown, etc. This is a perfect app for building automaticity with 10! https://itunes.apple.com/us/app/10-frame-fill/id418083871?mt=8
Ten Frame 	Ten frames are a great tool for helping early learners understand the concepts of place value. Give kids the skills they need to compose and decompose numbers 11 to 19 in this ten frame game. This place value practice will help them understand how to quickly identify a "ten" and master more complex math concepts. https://www.education.com/game/ten-frame-11-20/

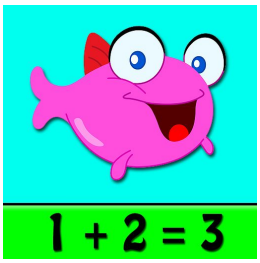
Franklin's Friends of 10 	It is fabulous happy-medium of building conceptual understanding ten and skill-and-drill practice. It shows equations to 10 initially, but if students press the pencil (upper left-hand corner) they receive a blank writing surface perfect for drawing a picture or tallies to solve for the missing number). Additionally, if students press the question mark, they receive a short-and-sweet mini-lesson on Making 10. https://itunes.apple.com/us/app/franklins-friends-of-10/id832658979?mt=8
Make 10 Plus 	Is a fabulous happy-medium of building conceptual understanding ten and skill-and-drill practice. It shows equations to 10 initially, but if students press the pencil (upper left-hand corner) they receive a blank writing surface perfect for drawing a picture or tallies to solve for the missing number). Additionally, if students press the question mark, they receive a short-and-sweet mini-lesson on Making 10. https://itunes.apple.com/us/app/make-10-plus/id630033796?mt=8
Numbers Logic Puzzle 	A derivative of Candy Crush students compete against the computer (on the right side of the screen) to use all the colored numbers. Students have connect up to 3 numbers in the preliminary rounds and eventually up to 5 numbers. Initially my 1st graders were only using 2 addends to make 10 until they are 'stuck' with no other addends available. From there, it was great practicing in composing multiple addends to make 10. This is the most difficult of the apps, but the one I like the most. https://itunes.apple.com/us/app/numbers-logic-puzzle/id498473975?mt=8
Find Sums	It is an amazing app for addition number sense. In the picture you can see that my girls are choosing addends to make a particular sum. There are two different modes—one with apples in a ten frame so the empty spaces can easily be counted, and another with a simple part-part-whole model. I love that I can differentiate with this app!

	https://itunes.apple.com/us/app/mathtappers-find-sums-math/id353582286?mt=8
QR Code Math 	Fun math learning with technology! Students use QR codes to fill in dots on a ten frame. Students pick a card, scan the QR code, and read what number comes up. On their recording sheet, they draw that many dots in the ten frame with the corresponding letter. Students complete for all cards and then check their answers with the answer key. Also included is a response for students to do after completing the QR code activity. https://www.teacherspayteachers.com/Product/QR-Code-Math-1465552

Addition

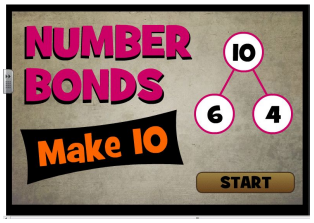
FREE iPad apps for practicing addition.

App	Description
QR Code Addition - Flash Cards 	QR codes are a fun way to get the students engaged in a new lesson. In this material, your students will be solving addition problems and checking their work by scanning QR codes. All you need for this lesson is a device that has a QR Code Scanner installed. This is a great, easy way to integrate technology into everyday math instruction. https://www.teacherspayteachers.com/Product/QR-Code-Addition-Flash-Cards-FREE-1901060

Fun4thebrain 	The following games will help you master your addition facts 1 - 12. https://www.fun4thebrain.com/addition.html
Butterfly Math Additions 	It is another great app for fundamental addition concepts. It has verifying levels for each of the concepts. My students love catching and releasing the butterflies to model addition problems. https://itunes.apple.com/us/app/butterfly-math-addition/id484002905?mt=8
Addition Under Sea Adventures 	The students solve addition problems to reveal parts of a hidden secret picture. Each level has a different secret picture to uncover and it gets progressively harder. The ultimate goal is to unlock all of the pictures and reach the final level. https://itunes.apple.com/us/app/addition-undersea-adventures/id386107435?mt=8
	Students first complete the two-digit addition and subtraction problems (with and without regrouping), then check their answer by scanning the QR code that is on the card. https://www.teacherspayteachers.com/Product/FREE-Two-Digit-Addition-Subtraction-SCOOT-with-QR-Codes-660607

Subtraction

App	Description
QR Codes Subtraction Center	Swing into subtraction with this QR Code set! My first graders love using task cards as a math center; especially since QR codes are involved! QR codes instantly make activities more exciting and engaging for all learners.

	Students are able to check their answers on their own giving them instant feedback on their work-which is just one reason why I love students working with QR Codes. https://www.teacherspayteachers.com/Product/Free-QR-Codes-Subtraction-Center-1353987
	This is a free sample of our 12 page set of worksheets designed to help your students master their 0-18 addition and subtraction facts. There are 20 problems and the students will work to answer them in one minute. Then they can scan the qr code for each problem to see if their answers are correct. These worksheets are great for students to use independently, with a partner, or in math centers! https://www.teacherspayteachers.com/Product/QR-Code-Addition-and-Subtraction-Fluency-Freebie-1426151
Number Bonds 20 	Combine number balls to make sums of 20. https://www.mathplayground.com/number_bonds_20.html

Place Value

App	Description
Number Duel 	It is a fun and simple app for practicing greater than/less than. Students tap the larger number to score a point—with the goal being to score 21 points. They lose three points for every wrong answer, which encourages them to take their time and focus on accuracy. https://itunes.apple.com/us/app/number-duel/id634198009?mt=8
Chocolate Chip Cookie Factory:	As owner of the Chocolate Chip Cookie Factory, your job is to ship and deliver cookies to your customers as fast as possible. Cookies are sold by ones... or in stacks and

Place Value 	boxes. Tap on an item to add it to an order. The order will ship or be delivered when the cookie count matches the cookie order. The counting version was perfect when we were starting out, but some students moved onto the addition version. https://itunes.apple.com/us/app/chocolate-chip-cookie-factory/id556939800?mt=8
QR Code Scavenger Hunt: Base 10 Blocks FREEBIE 	QR code scavenger hunts can be used for review, for early finishers, or to challenge your higher students. Print, laminate, and hang the phones up around your room. Students find the phone that says "Start" and scan the QR code to reveal the first question. Each QR code will lead them to the next phone until they complete the scavenger hunt. A student response sheet (with directions) and answer key are included. https://www.teacherspayteachers.com/Product/QR-Code-Scavenger-Hunt-Base-10-Blocks-FREEBIE-653598
Place Value Task Cards, Tens and Ones Games, QR Codes Math Activities 	Six free place value tens and ones task cards for kindergarten, 1st grade or special education math students. They feature base ten blacks and QR codes. https://www.teacherspayteachers.com/Product/FREE-Place-Value-Task-Cards-Tens-and-Ones-Games-QR-Codes-Math-Activities-1527053

Clock

Telling time can be an extremely difficult concept for primary students to grasp. Luckily, there are some amazing iPad apps out there that make learning to tell time more engaging and interactive.

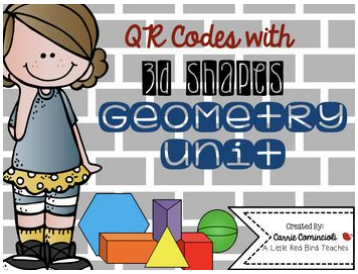
App	Description
Interactive Telling Time Lite 	Discover an easy and fun way to learn analog/digital clocks. It offers two engaging games—Set the Time and Stop the Clock. For Set the Time, students move the hands on the analog clock to show the designated time. Stop the Clock is my students' favorite because they enjoy the suspense of waiting for the clock hands to get to the perfect position for them to press the stop button. This app can be played at various difficulty levels and students are motivated to keep playing because of the virtual aquarium where they get to redeem their prizes. https://itunes.apple.com/us/app/interactive-telling-time-lite/id482452233?mt=8
Tell Time: Little Matchups 	It requires students to match analog clocks and digital clocks. The matchups get progressively harder as the students get better at matching the clocks. https://itunes.apple.com/us/app/tell-time-little-matchups/id440944851?mt=8
Telling Time Quiz 	"Simple and effective! A great way to learn to tell time." It is a fun game for which students choose the analog clock that matches the time shown in words. It starts out with time to the hour and gets progressively harder as students master and unlock each level. https://itunes.apple.com/us/app/telling-time-quiz-fun-game/id615182588?mt=8
Time Teacher Lite	Time Teacher is a great way to teach children how to read time. Within this app is a number of activities that will help children develop an understanding of telling the time for your children, including: matching digital and

	analog time and setting the hands on an analog clock to match a digital clock. When students take a quiz, they can earn trophies as well as puzzle pieces to complete a hidden picture. https://itunes.apple.com/us/app/time-teacher-lite-learn-how/id644766778?mt=8

Geometry

Here are some free apps and activities we used for practicing 2D and 3D shape concepts.

App	Description
Cyberchase 3D Builder 	It is a free app that helps students understand how 3D shapes are made from simple 2D shapes. https://itunes.apple.com/us/app/cyberchase-3d-builder/id567766140?mt=8
Geoboard by the Math Learning Center 	Geoboard is a tool for exploring a variety of mathematical topics introduced in the elementary and middle grades. Learners stretch bands around the pegs to form line segments and polygons and make discoveries about perimeter, area, angles, congruence, fractions, and more. This virtual version of the manipulative is an open-ended educational tool, ideal for elementary classrooms and other learning environments that use iPod Touches, iPhones, or iPads.We used this virtual geoboard to practice our basic shapes and then I projected various designs onto my Apple TV for my kids to try. https://itunes.apple.com/us/app/geoboard-by-math-learning/id519896952?mt=8
QR Code Math Task Cards: Shapes	12 QR Code task cards for students to practice identifying 2-D shapes. Using QR Codes in the classroom allows students to self-check and self-correct their independent work and thinking. This is a great math

	center activity and would also be an ideal assessment tool to evaluate how well students can identify the names of the 2-D shapes. https://www.teacherspayteachers.com/Product/QR-Code-Math-Task-Cards-Shapes-A-Freebie-777410
Identifying 2D and 3D Shapes using QR Codes 	This 7 page freebie is the perfect activity to kick start your geometry unit. This geometry math center includes 12 cards with 2D and 3D shapes and an QR code. This center will help your students identify the names of 2D and 3D shapes using QR codes for immediate feedback. https://www.teacherspayteachers.com/Product/Identifing-2D-and-3D-Shapes-using-QR-Codes-784902
3D Shapes with QR Codes Freebie 	QR Codes are a great way to integrate technology into your classroom and give students immediate feedback. Students will answer the questions about the shapes and then scan the code to self check their responses. This free packet includes 3 different QR activities with 3D Shapes. The shape cards can be used with the whole class, small group, or individually. They can be used as an "I Spy" activity posted around the room, in a center, or as an assessment. https://www.teacherspayteachers.com/Product/3D-Shapes-with-QR-Codes-Freebie-682336

Measurement

App	Description
Measuring to the Nearest Inch with QR Codes	Students will enjoy this hands on math measurement activity! Students can self-check their own responses after they measure classroom objects that measure to the nearest inch. Students will measure 10 objects, record their answer, and self check using the QR code reader. Students will measure the follow objects in this activity: a notebook, stapler, supply box, small glue stick, small paperclip, small kid scissors, tape dispenser, crayon box, dry erase marker, and a brand new non-sharpened

	pencil! This is a user friendly and simple way to introduce how to use QR codes in your classroom during a math lesson. https://www.teacherspayteachers.com/Product/FREE-Measuring-to-the-Nearest-Inch-with-QR-Codes-652670

Money

Money always seems to be such a difficult concept for primary students, and if I'm being completely honest, I usually tend to dread teaching it. However, this year the iPads have helped make our money centers much more engaging and interactive, and my students are really starting to grasp the tough money concepts.

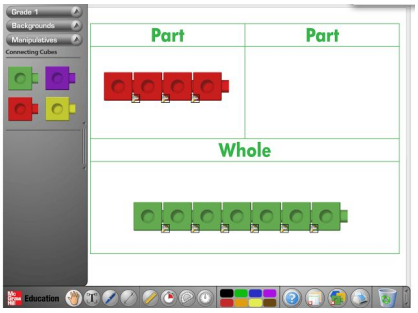
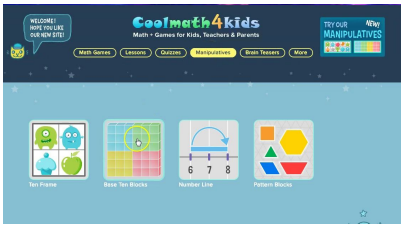
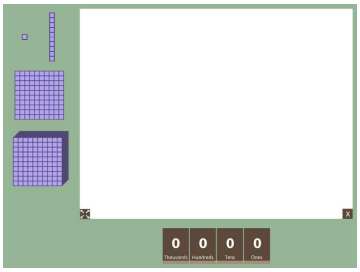
App	Description
Cyberchase 3D Builder 	It is a free app that helps students understand how 3D shapes are made from simple 2D shapes. https://itunes.apple.com/us/app/cyberchase-3d-builder/id567766140?mt=8
Amazing Coin 	It offers several interactive games dealing with identifying and counting coins, making change, and money patterns. My students especially love the rewards that allow them to buy food in the store. https://itunes.apple.com/us/app/amazing-coin-usd-educational/id495887877?mt=8
Coin Crash 	It is a fast-paced game that requires students to flick coins up to reach the specified amount. The levels get progressively harder and faster, but they can use bombs to keep the coins from growing out of control. If the coins reach the top, then it's game over! https://itunes.apple.com/us/app/coin-crash/id874148071?mt=8

Coin Catcher Lite 	A fun game about money from PlayMoolah! Kids learn about coins, needs vs. wants, with unique gameplay that puts both dexterity and memory to the test. The evil stealer has stolen all the treasure.. and even the princess! https://itunes.apple.com/sg/app/coin-catcher-lite/id534578991?mt=8

Online Math Manipulative

From cuisenaire rods to base-ten pieces, manipulatives are a CRITICAL part of our primary classrooms. They offer students a real, hands-on way to explore a mathematical concept and build their own meaning. The CSA model of mathematics has us moving students from the concrete to the semi-concrete to the abstract when introducing and teaching new material. When students are struggling at the representational/abstract level, we always move back and build concrete experiences with mathematics. Students need hands-on ways to interact with math.

App	Description
Think Central THINK central	It's a free resource from Hardcourt, offers K-12 teachers resources to accompany their math textbook. Our school does not use a prescribed curriculum, but still we love having access to these free resources. From basic math concepts to middle-grade geometry and algebra, Think Central is thorough (remember – it's intended to supplement a textbook so it has a HUGE catalog of resources). It include basic math concepts to middle-grade geometry and algebra.

	https://www-k6.thinkcentral.com/content/hsp/math/hspmath/na/common/itools_int_9780547584997_/main.html
Math Learning Center	The Math Learning Center offers web and **app-based** manipulatives – with the best resources for building number sense. The Math Learning Center provides easy to use **number-sense building manipulatives** – abaci, ten frames, hundreds charts, etc. https://www.mathlearningcenter.org/resources/apps
Glencoe 	Glencoe has an awesome collection of grade-specific thinking mats named "backgrounds" that you can interchange with a huge bank of manipulatives. From Part, Part, Whole mats to fraction unit tiles, Glencoe has ALL the materials needed to demonstrate Common Core math strategies and concepts. There aren't as many bells and whistles (pens, markers, flexibility) but in terms of content, it's thorough. http://www.glencoe.com/sites/common_assets/mathematics/ebook_assets/vmf/VMF-Interface.html
Cool Math 4 Kids 	It is an **online** mathematical **manipulative** that helps students learn addition and more. https://www.coolmath4kids.com/manipulatives
Base Ten Blocks 	ABCya! Base Ten Blocks virtual manipulatives is to help students learn mathematical concepts including addition, subtraction, number sense, place value and counting. http://www.abcya.com/base_ten.htm

SPLAT Online!

You can recognize number patterns on the 100s chart, as well as, 'before' and 'after'. My go-to 100's chart is SPLAT online! We turn this online resource into a game, playing as a class on our SMART Board.

http://www.primarygames.co.uk/pg2/splat/splatsq100.html