| [K](https://www.education.com/common-core/kindergarten/math/) | [1](https://www.education.com/common-core/first-grade/math/) | [2](https://www.education.com/common-core/second-grade/math/) | [3](https://www.education.com/common-core/third-grade/math/) | [4](https://www.education.com/common-core/fourth-grade/math/) | [5](https://www.education.com/common-core/fifth-grade/math/) |
| --- | --- | --- | --- | --- | --- |
| **Knows number names and the count sequence**[Numberfly](http://www.jimwrightonline.com/php/numberfly/numberfly.php)(NI), [MIND](https://brianponcy.wixsite.com/mind/mind-early-numeracy), [Acadience](https://acadiencelearning.org/acadience-math-materials-download/), [K5 Learning](https://www.k5learning.com/free-preschool-kindergarten-worksheets/counting), have student count aloud**FAM** | **Represent and solve problems involving addition and subtraction**[Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [MIND](https://brianponcy.wixsite.com/mind/addition), [Fact Families](https://www.education.com/worksheet-generator/math/addition-subtraction-fact-families/), | **Represent and solve problems involving addition and subtraction within 100 in word problems**[K5 Learning](https://www.k5learning.com/free-math-worksheets/second-grade-2/addition), [MIND](https://brianponcy.wixsite.com/mind/mind-sr-subtraction), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [Acadience](https://acadiencelearning.org/acadience-math-materials-download/), [K5 Fact Families](https://www.k5learning.com/free-math-worksheets/second-grade-2/subtraction/fact-families) | **Represent and solve problems involving multiplication and division**[Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [K5 Mult](https://www.k5learning.com/free-math-worksheets/third-grade-3/multiplication), [K5 Div](https://www.k5learning.com/free-math-worksheets/third-grade-3/division), [MIND Mult](https://brianponcy.wixsite.com/mind/mind-sr-multiplication), [MIND Div](https://brianponcy.wixsite.com/mind/mind-sr-division), [Acadience](https://acadiencelearning.org/acadience-math-materials-download/), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/4th-grade/), [CC](https://www.commoncoresheets.com/Multiplication.php), [Cafe WP](https://www.mathfactcafe.com/Worksheet/WordProblem) | **Use the four operations with whole numbers to solve problems**[K5 Learning](https://www.k5learning.com/free-math-worksheets/fourth-grade-4), [K5 Operations](https://www.k5learning.com/free-math-worksheets/third-grade-3/order-of-operations), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [Cafe WP](https://www.mathfactcafe.com/Worksheet/WordProblem) | **Understand the place value system**[K5 Learning](https://www.k5learning.com/free-math-worksheets/fifth-grade-5/place-value-rounding), [Math Aids](https://www.math-aids.com/Place_Value/), [CC](https://www.commoncoresheets.com/Values.php) |
| **Count to tell the number of objects**[Object Counting](https://www.softschools.com/countmain.jsp), [K5 Learning](https://www.k5learning.com/free-preschool-kindergarten-worksheets/numbers-counting), [MIND](https://brianponcy.wixsite.com/mind/mind-early-numeracy), [p.32/33,](https://www.interventioncentral.org/sites/default/files/workshop_files/allfiles/SLV_BOCES_CBM_Overview_PPT.pdf) [Cafe](https://www.mathfactcafe.com/Worksheet/Counting), have student count paperclips/objects**FAM** | **Understand and apply properties of operations and the relationship between addition and subtraction**[MIND](https://b319dbea-747c-4d18-b9e4-407f0fd0b5b0.filesusr.com/ugd/7a057f_fad2f6fb2ae54d5cbe00d9753d94c4c3.pdf), [Fact Families](https://www.education.com/worksheet-generator/math/addition-subtraction-fact-families/), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [Ten-Frames](https://www.megaworkbook.com/maths/ten-frames/ten-frame-worksheets)**FAM** | **Add and subtract fluently within 20**[MIND add](https://brianponcy.wixsite.com/mind/addition), [MIND sub](https://brianponcy.wixsite.com/mind/mind-sr-subtraction), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [Acadience](https://acadiencelearning.org/acadience-math-materials-download/), [Education](https://www.education.com/worksheet-generator/math/), [p.38](https://www.interventioncentral.org/sites/default/files/workshop_files/allfiles/SLV_BOCES_CBM_Overview_PPT.pdf)**WIAT, WJ, FAM** | **Understand properties of multiplication and the relationship between multiplication and division**[K5 Mult](https://www.k5learning.com/free-math-worksheets/third-grade-3/multiplication), [K5 Div](https://www.k5learning.com/free-math-worksheets/third-grade-3/division), [K5 Fact Families](https://www.k5learning.com/free-math-worksheets/third-grade-3/division/fact-families), [MIND Relationships](https://b319dbea-747c-4d18-b9e4-407f0fd0b5b0.filesusr.com/ugd/7a057f_d941f8476041486da29d893b9d6652d7.pdf), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt)**FAM** | **Generalize place value understanding for multi-digit whole numbers**[K5 Place Value](https://www.k5learning.com/free-math-worksheets/fourth-grade-4/place-value-rounding), [MathAids](https://www.math-aids.com/Place_Value/) | **Perform operations with multi-digit whole numbers and decimals to hundredths**[K5 Decimals](https://www.k5learning.com/free-math-worksheets/fifth-grade-5), [Decimals](https://helpingwithmath.com/generators/5nbt07-decimal-worksheet01/) |
| **Compare numbers**[Numberfly](http://www.jimwrightonline.com/php/numberfly/numberfly.php)(QD), [Acadience](https://acadiencelearning.org/acadience-math-materials-download/)**,** [p.31](https://www.interventioncentral.org/sites/default/files/workshop_files/allfiles/SLV_BOCES_CBM_Overview_PPT.pdf), [numeracy](https://www.numeracyscreener.org/)**FAM** | **Add and subtract within 20**[Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [MIND add](https://brianponcy.wixsite.com/mind/addition), [MIND sub](https://brianponcy.wixsite.com/mind/mind-sr-subtraction), [Education](https://www.education.com/worksheet-generator/math/), [Ten-Frames](https://www.megaworkbook.com/maths/ten-frames/ten-frame-worksheets), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/1st-grade/), [Acadience](https://acadiencelearning.org/acadience-math-materials-download/), [p.37](https://www.interventioncentral.org/sites/default/files/workshop_files/allfiles/SLV_BOCES_CBM_Overview_PPT.pdf)**WIAT, WJ, FAM** | **Understand place value**[K5 Learning](https://www.k5learning.com/free-math-worksheets/second-grade-2/place-value-rounding), [MathAids](https://www.math-aids.com/Place_Value/), [CC](https://www.commoncoresheets.com/Values.php) | **Multiply and divide within 100**[K5 Multiplication](https://www.k5learning.com/free-math-worksheets/third-grade-3/multiplication), [K5 Division](https://www.k5learning.com/free-math-worksheets/third-grade-3/division), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/4th-grade/), [p.38](https://www.interventioncentral.org/sites/default/files/workshop_files/allfiles/SLV_BOCES_CBM_Overview_PPT.pdf), [Cafe2](https://www.mathfactcafe.com/Worksheet/MultTable)**WIAT, FAM** | **Use place value understanding and properties of operations to perform multi-digit arithmetic**[K5 Learning](https://www.k5learning.com/free-math-worksheets/fourth-grade-4), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt) | **Use equivalent fractions as a strategy to add and subtract fractions**[K5 Fractions](https://www.k5learning.com/free-math-worksheets/fifth-grade-5/fractions-addition-subtraction), [Fractions](https://www.k5learning.com/free-math-worksheets/fourth-grade-4/fractions/equivalent-fractions) |
| **Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from**[Number Line](https://www.education.com/worksheet-generator/math/number-line/), [Fact Families](https://www.education.com/worksheet-generator/math/addition-subtraction-fact-families/), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [MIND](https://brianponcy.wixsite.com/mind/addition)**FAM** | **Work with addition and subtraction equations**[K5 Learning](https://www.k5learning.com/free-math-worksheets/first-grade-1), [MIND](https://brianponcy.wixsite.com/mind/addition), [Fact Families](https://www.education.com/worksheet-generator/math/addition-subtraction-fact-families/), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt)**,** [Acadience](https://acadiencelearning.org/acadience-math-materials-download/) | **Use place value understanding and properties of operations to add and subtract**[K5 Learning](https://www.k5learning.com/free-math-worksheets/second-grade-2/place-value-rounding), [MathAids](https://www.math-aids.com/Place_Value/), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt), [Education](https://www.education.com/worksheet-generator/math/) | **Solve problems involving the four operations, and identify and explain patterns in arithmetic**[K5 Operations](https://www.k5learning.com/free-math-worksheets/third-grade-3), [K5 WP](https://www.k5learning.com/free-math-worksheets/third-grade-3/word-problems-mixed), [Skip Counting](https://www.k5learning.com/free-math-worksheets/second-grade-2/skip-counting), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/4th-grade/), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt) | **Extend understanding of fraction equivalence and ordering**[K5 Fractions](https://www.k5learning.com/free-math-worksheets/fourth-grade-4), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/4th-grade/) | **Apply and extend previous understandings of multiplication and division to multiply and divide fractions**[K5 Fractions](https://www.k5learning.com/free-math-worksheets/fifth-grade-5/fractions-multiplication-division), [SuperKids](https://superkids.com/aweb/tools/math/fraction/) |
| **Work with numbers 11-19 to gain foundations for place value**[Number Line](https://www.education.com/worksheet-generator/math/number-line/), [Ten-Frames](https://www.megaworkbook.com/maths/ten-frames/ten-frame-worksheets) | **Extend the counting sequence**[Numberfly](http://www.jimwrightonline.com/php/numberfly/numberfly.php)(MN), [K5 Learning](https://www.k5learning.com/free-preschool-kindergarten-worksheets/counting), [Number Line](https://www.education.com/worksheet-generator/math/number-line/)**,** [Acadience](https://acadiencelearning.org/acadience-math-materials-download/)**FAM** | **Measure and estimate lengths in standard units**[MWSS](http://themathworksheetsite.com/read_tape.html), [K5 Learning](https://www.k5learning.com/free-math-worksheets/second-grade-2/measurement), [CC](https://www.commoncoresheets.com/Measurement.php) | **Develop understanding of fractions as numbers**[K5 Fractions](https://www.k5learning.com/free-math-worksheets/third-grade-3/fractions-and-decimals), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/4th-grade/), [CC](https://www.commoncoresheets.com/Fractions.php) | **Build fractions from unit fractions by applying and extending previous understandings of operations**[K5 Fractions](https://www.k5learning.com/free-math-worksheets/fourth-grade-4/fractions), [Delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/fall-begins-august-15/fall-paper-based/4th-grade/) | **Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition**[K5 Measurement](https://www.k5learning.com/free-math-worksheets/fifth-grade-5/measurement), [Volume](https://www.mathworksheets4kids.com/volume-cubes.php) |
|  | **Understand place value**[K5 Learning](https://www.k5learning.com/free-math-worksheets/first-grade-1/place-value), [MathAids](https://www.math-aids.com/Place_Value/) | **Relate addition and subtraction to length**[K5 Learning](https://www.k5learning.com/free-math-worksheets/second-grade-2/measurement), [MWSS](http://themathworksheetsite.com/), [Cafe](https://www.mathfactcafe.com/worksheet/distance) | **Solve problems involving measurement and estimation of intervals of time, liquid volumes, and mass of objects**[K5 Measure](https://www.k5learning.com/free-math-worksheets/third-grade-3/measurement), [K5 Time](https://www.k5learning.com/free-math-worksheets/third-grade-3/telling-time), [Time](https://www.superkids.com/aweb/tools/time/), [Measure](http://themathworksheetsite.com/read_tape.html), [CC](https://www.commoncoresheets.com/Capacity.php), [Cafe](https://www.mathfactcafe.com/worksheet/ctime), [Cafe2](https://www.mathfactcafe.com/worksheet/volume), [Mass](https://www.mathfactcafe.com/worksheet/weight) | **Understand decimal notation for fractions, and compare decimal fractions**[K5 Learning](https://www.k5learning.com/free-math-worksheets/fourth-grade-4/fractions-to-decimals), [CC](https://www.commoncoresheets.com/Decimals.php) | **Graph points in the coordinate plane to solve real-world and mathematical problems**[Graphing](https://www.math-aids.com/Graphing/), [CC](https://www.commoncoresheets.com/Grids.php) |
|  | **Use place value understanding and properties of operations to add and subtract**[K5 Learning](https://www.k5learning.com/free-math-worksheets/first-grade-1/place-value), [Cafe](https://www.mathfactcafe.com/Worksheet/BuildIt) |  | **Geometric measurement: understand concepts of area and relate area to multiplication and addition**[K5 Learning](https://www.k5learning.com/free-math-worksheets/third-grade-3/geometry), [CC](https://www.commoncoresheets.com/Area.php) |  |  |
|  | **Measure lengths indirectly and by iterating length units**[K5 Learning](https://www.k5learning.com/free-math-worksheets/first-grade-1/measurement), [MWSS](http://themathworksheetsite.com/read_tape.html), use a ruler/measuring tape |  |  |  |  |
| Instructional Hierarchy [Rules of Thumb](https://youtu.be/3IuCyDlgqtA?t=931): Grades 1-3: Acquisition Phase 0-19 [correct digits](https://iris.peabody.vanderbilt.edu/wp-content/uploads/pdf_activities/independent/IA_Scoring_Math_Comp_Probes.pdf) per 2 minutes, Fluency Building Phase 20-39 per 2 minutes, Mastery 40 per 2 minutes Grades 4-6 double the above, Grades 7+ add 20% |



* [**Instructional Hierarchy**](http://www.jimwrightonline.com/mixed_files/lansing_IL/_Lansing_IL_Aug_2013/5_instructional_hierarchy_revised.pdf) **Acquisition strategies**: [Explicit](https://www.thescienceofmath.com/what-is-explicit-instruction) and systematic instruction, multimodal

 presentations, active demonstration of target skill, modeling of correct performance, close

 supervision with immediate feedback. [cover-copy-compare](https://www.interventioncentral.org/academic-interventions/math-facts/how-master-math-facts-cover-copy-compare), [peer tutoring](https://www.interventioncentral.org/academic-interventions/math-facts/peer-tutoring-math-computation-constant-time-delay)

* **Fluency building strategies**: Increased opportunities for practice and opportunities to respond,

 delayed feedback, independent practice, daily practice, [incremental rehearsal](https://www.interventioncentral.org/academic-interventions/math-facts/math-computation-promote-mastery-math-facts-through-incremental-re), [TCCC](https://www.pattan.net/Multi-Tiered-System-of-Support/Mathematics/Handwriting-of-Numerals),

 [self-monitoring](https://www.interventioncentral.org/academic-interventions/math-facts/math-computation-increase-accuracy-and-productivity-rates-self-mon), [folding in](https://www.interventioncentral.org/node/965168), [flashcards](https://www.k5learning.com/free-flashcards), [drill sandwich](https://www.svpanthers.org/cms/lib/PA02203711/Centricity/Domain/483/drillSandwichStrategy.pdf), [timed trials](https://ies.ed.gov/ncee/wwc/Docs/PracticeGuide/WWC2021006-Math-PG.pdf#page=58), [TP](https://www.interventionexpress.com/uploads/1/6/8/5/16851140/taped-problems.pdf) ([video](https://youtu.be/Z42T9a26bzE)), [drills](https://communityreading.org/math/?mibextid=Zxz2cZ)

* **Available/Approved Math Interventions:** [First in Math](https://explore.firstinmath.com/program-content/educator-questions/) (Supplemental), [Do the Math](https://www.heinemann.com/dothemath/) (K-5), [Bridges](https://www.mathlearningcenter.org/bridges)

 (Title 1 - Elem), [Dreambox Learning](https://www.dreambox.com/) (Title 1 - Elem), [Math 180](https://www.hmhco.com/products/math-180/login.htm) (Middle)

* **Additional Instructional Resources:** [p.138](https://www.clayton.k12.ga.us/common/pages/UserFile.aspx?fileId=10629519), [XtraMath](https://home.xtramath.org/) (basic operations practice), [Freckle](https://freckle.com/en-us/) (broad

 math), [MIND](https://brianponcy.wixsite.com/mind/mind-early-numeracy) (early numeracy and basic operations), [Splash](https://www.splashlearn.com/math-skills/first-grade) (skill specific), [ThatQuiz](https://www.thatquiz.org/?fbclid=IwAR0MJjAoy115759luooxbN392oOG0ekNrUKrw64RsYTBTMv0rjAj97toAM8) (skill practice),

 [Pirate](http://www.piratemathequationquest.com/about.html) (word problems), computer [flashcards](https://www.mathfactcafe.com/) by grade, [SOM](https://www.thescienceofmath.com/), [games](https://aacpsportal.sharepoint.com/sites/MTSS/Shared%20Documents/April%27s%20Game%20and%20Other%20Math%20Games.pdf), [Common Core Standards](https://achievethecore.org/category/774/mathematics-focus-by-grade-level?fbclid=IwAR2vrs3onpO8PuwqDa36ChZYuzB9XblNS_lN1_lHxPUtrSDLyFULVVwnlBA), [IES fractions](https://ies.ed.gov/ncee/wwc/PracticeGuide/15),

 [IES intervention](https://ies.ed.gov/ncee/wwc/Docs/PracticeGuide/WWC2021006-Math-PG.pdf#page=58), [IES problem solving](https://ies.ed.gov/ncee/wwc/PracticeGuide/16), [mathigon](https://mathigon.org/), [major standard clusters](https://achievethecore.org/category/774/mathematics-focus-by-grade-level?fbclid=IwAR2vrs3onpO8PuwqDa36ChZYuzB9XblNS_lN1_lHxPUtrSDLyFULVVwnlBA), [fluency practice](https://communityreading.org/math/?mibextid=Zxz2cZ)

* **Progress monitoring, with norms/benchmarks**: [easycbm](https://easycbm.com/), [acadience](https://acadiencelearning.org/acadience-math-materials-download/), [delta](https://www.oaisd.org/deltamath/online-and-paper-screening-resources/), [intervention central](https://www.interventioncentral.org/curriculum-based-measurement-reading-math-assesment-tests),

 [MIND](https://brianponcy.wixsite.com/mind/mind-early-numeracy), [iReady](https://www.curriculumassociates.com/products/i-ready), [intervention central2](http://www.jimwrightonline.com/mixed_files/esboces_2012/wright_CBM_math_writing_fluency_norms.pdf), [Fuchs](https://my.vanderbilt.edu/specialeducationinduction/files/2013/07/IA.Math-CBM.pdf), [p.31](https://drive.google.com/file/d/1i8VR3BtNMamr76rCSkxlQ8TcgaLGWhRE/view?usp=sharing), AACPS [Checkpoints](https://aacpsportal.sharepoint.com/sites/CurriculumMasters/ElemMath/Forms/AllItems.aspx?id=%2Fsites%2FCurriculumMasters%2FElemMath%2F%5FElementary%20Math%20Unit%20Checkpoints&viewid=50bfa581%2D07d1%2D47bc%2D9c96%2D7d5ba408a3cf), [numeracy](https://www.numeracyscreener.org/)

* [**Possible Report Recommendations**](https://docs.google.com/document/d/18VKAn96VU-XjWxzEmphdZMwW5J7yAD9gSuZRx7ADZa4/edit?usp=sharing)