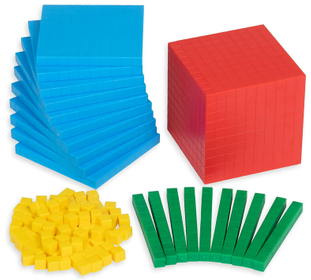
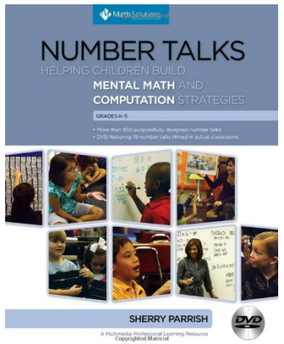
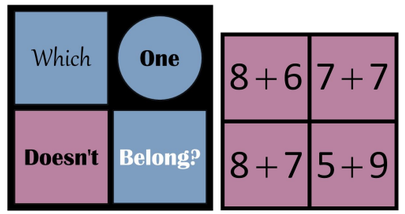
Grade 1 Mathematics Resource Rumble

Resource Title	Color by Number	Base 10 Blocks	Number Talks	Which One Doesn't Belong	Weather Graph
Description of Resource	Worksheet designed to be colored in, with certain areas corresponding to different colors.	Physical representations of 1's, 10's 100's and 1000's in the form of plastic cubes or collections of cubes	Class discussions about mathematics and various mathematical concepts	Students compare a selection of objects and decide which ones stand out as being different. There are no wrong answers as long as they can provide support	Students fill out the graph over a set period of time, coloring sections of the corresponding table
Big Idea	Addition and subtraction with numbers to 10 can be modeled concretely, pictorially, and symbolically to develop computational fluency.	Numbers to 20 represent quantities that can be decomposed into 10s and 1s.	Numbers to 20 represent quantities that can be decomposed into 10s and 1s. Addition and subtraction with numbers to 10 can be modeled concretely, pictorially, and symbolically to develop computational fluency.	Objects and shapes have attributes that can be described, measured, and compared.	Concrete graphs help us to compare and interpret data and show one-to-one correspondence.
Curricular Competencies	• Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Communicate mathematical thinking in many ways • Connect mathematical concepts to each other and to other areas and personal interests	• Develop mental math strategies and abilities to make sense of quantities • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts	• Use mathematical vocabulary and language to contribute to mathematical discussions • Use reasoning to explore and make connections • Develop mental math strategies and abilities to make sense of quantities • Communicate mathematical thinking in many ways	• Explain and justify mathematical ideas and decisions • Use reasoning to explore and make connections • Use mathematical vocabulary and language to contribute to mathematical discussions	• Visualize to explore mathematical concepts • Represent mathematical ideas in concrete, pictorial, and symbolic forms • Connect mathematical concepts to each other and to other areas and personal interests
Summary	Color by numbers can be matched to wherever the student is developmentally. Sections can be labeled with simple equations, or simply with numbers for number recognition. This is a great way to practice numeracy and basic computations in a fun way.	Base ten blocks can be used to break down any number into manageable parts, so students can count how many 10s and how many 1s make up the number. These make an excellent manipulative that can allow students the opportunity to get hands on with their math. Can also be used as a physical representation of how to draw out base ten problems.	Number talks inspire numerical fluency, giving students an opportunity to discuss mathematical concepts, and broaden their scope of knowledge. This should be included regularly in the classroom, it can be guided or more open ended depending on the group of students.	Students are encouraged to think critically and evaluate the variables presented to them. Open discussion allows students to exchange ideas. This can be used as a part of the daily or weekly routine in the classroom to encourage critical thinking and inspire mathematical literacy, offering opportunities to practice mathematical vocabulary. Makes an excellent hook to begin a project or lesson	Easy way to introduce graphing using something concrete that you will be discussing in class, the weather. Give rows for each weather category, and have students fill in one square for every day that matches that description. You can then analyze your data and make observations of the weather over a week or a month.

Examples	https://www.education.com/worksheet/article/addition-color-by-number/		 *and many more books on the topic!		https://www.education.com/worksheet/article/weather-graph/

Resource Title	I Spy Shapes	Pattern Blocks	IXL.com	Rich Tasks	Number Books
Description of Resource	Worksheet designed to allow students to identify and color or circle the correct shapes out of a selection of shapes.	Physical manipulatives or paper templates to be cut out, that allow students to build or replicate patterns.	This website has many practice activities that can be specifically matched to the curriculum and the topic that is being covered	The idea of rich tasks proposes a problem with which the students can grapple, and share ideas in order to solve the problem	Booklets with provided information to fill in and complete, such as odd or even, breaking the number down into 1s and 10s, representing the number in visual ways, tracing the numbers, or writing the number name.
Big Idea	Objects and shapes have attributes that can be described, measured, and compared.	Repeating elements in patterns can be identified.	Can be connected to any big idea, dependent on the activity selected	Can be connected to any big idea, dependent on the problem provided	Numbers to 20 represent quantities that can be decomposed into 10s and 1s.
Curricular Competencies	• Represent mathematical ideas in concrete, pictorial, and symbolic forms • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Use reasoning to explore and make connections • Use mathematical vocabulary and language to contribute to mathematical discussions	• Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving • Visualize to explore mathematical concepts • Represent mathematical ideas in concrete, pictorial, and symbolic forms	• Connect mathematical concepts to each other and to other areas and personal interests • Communicate mathematical thinking in many ways • Use reasoning to explore and make connections	• Use reasoning to explore and make connections • Develop mental math strategies and abilities to make sense of quantities • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving	• Use reasoning to explore and make connections • Model mathematics in contextualized experiences • Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving

Summary	Allows students to analyze what makes a particular shape. Encourages geometric vocabulary like sides, points, etc. This activity is an excellent starting point for explorations in geometry.	Pattern blocks allow students to explore patterning and create or replicate patterns. These can make an excellent independent or guided activity, and also make a great addition to a center station in the classroom, encouraging students to explore mathematics while at play.	This website is an excellent resource with practice in many aspects of the mathematics curriculum. It can be used as a whole class activity, using a smart board or projector. It can also be used as an independent activity in the classroom or at home to supplement the learner.	Rich Tasks utilize an inquiry style teaching method. Allowing students to dive into a problem, solving it independently or as a group, in one sitting or many. These problems encourage higher level thinking and complex problem solving. These can be used to accompany a math lesson, as a single stand alone lesson, or as a lesson series.	Number books encourage familiarity with numbers and make students more comfortable with mathematical premises like even and odd numbers. These books inspire numerical fluency and mathematical literacy.
Examples	https://www.twinkl.ca/resource/us-n-390-i-spy-circles-activity-sheet	 https://classplayground.com/pattern-blocks/	https://ca.ixl.com/math/grade-1	https://us.corwin.com/sites/default/files/rich_tasks_math_grade_1.pdf	https://www.teacherspayteachers.com/Product/Numbers-Galore-0-100-210588?st=d491418fec6a1770614e023f0072a98f