

Tool and Description

Name of Tool	Quantity	Description	Example of activities
Integer Chips		<p>Two-color counters are excellent for sorting, counting, and probability activities. Great for teaching many early math concepts and building counting skills. Counters measure 1" diameter. Also great for algebra class. Help the students understand what happens when you add positive and negative numbers. Also great for multiplication or positive and negative numbers</p>	<p>https://learnzillion.com/lesson_plans/5608-add-integers-using-chips/lesson</p> <p>This is a video on how to use the integer chips. Show to students so they can get the concept of using the integer chips.</p> <p>-----</p> <p>For multiplying a negative by a positive, have the students first establish positive and negatives on the chips. Then have students understand multiplying by having them do simple things such as 2 times 3. Let the students establish that they will have 2 groups of 3. Now let them do -2 times 3. Allow the students to set up the groups, but explain to them how multiplying by a negative flips all the chips thus ending with a negative answer. With -2 times -3 have the students set up 2 groups of negative 3. But since the 2 is negative the chips must be flipped hence you will end up with a positive</p>

			answer.
Algebra Blocks		Algebra blocks help students that struggle with concrete understanding. It gives meaning to variables, combine like terms with understanding, use an area model to represent multiplying and factoring polynomials, and solve first- and second-, and third-degree equations	http://thewessens.net/ClassroomApps/Models/Tiles/basicalgebra-tiles.html?topic=models&id=1 This is an online aid. This will allow you to teach the students how to use the algebra blocks. Also gives you help on zero pairs and like terms. Best to be projected onto the board so the teacher and student could work together
Algebra Tiles		Developed with the modern classroom in mind, Algebra Tiles are a fun and colorful way to model mathematical strategies for the whole class. They provide a highly visual way for students to learn and explore algebraic concepts like zero principle, variables, and integers. They involve students in learning algebraic concepts, including adding and subtracting polynomials, factoring trinomials, and the Zero Principle. Each tile represents the positive and negative of a quantity: $\pm x$, $\pm x^2$, and ± 1 .	https://study.com/academy/lesson/algebra-activities-with-tiles.html This lesson provides a small sample of algebra tile activities that can supplement your curriculum. Algebra tiles are extremely versatile and, depending on the level and age that you are teaching, there are a wide variety of activities that you can do. Once you get the hang of it, let your creativity go wild!