

Tool and Description

Key:

*(could not find a description)

Name of Tool	Quantity	Description	Example of activities
GeoBoards		<p>These math manipulatives are great for teaching simple shapes and more advanced concepts like symmetry, angles, and fractions</p> <p>Help students understand geometry concepts with hands-on exploration</p> <p>Supports academic state standards in geometry across grade levels</p> <p>Umbrella-head pins keep rubber bands in place; Rubber bands included</p>	<p>https://www.lessonplanet.com/search?keywords=geoboard+activities+fraction&msclkid=2654df8f28e1111f9acf81f93bf51964&utm_source=bing&utm_medium=cpc&utm_campaign=DSA%20(WS)&utm_term=lessonplanet&utm_content=All%20Webpages</p> <p>This link gives you a couple of ways to interact with the students. There is one activity that makes the students figure out how many ways to divide up a rectangle using the geoboards.</p>
Compass		<p>A compass, is a technical drawing instrument that can be used for inscribing circles or arcs. As dividers, they can also be used as tools to measure distances, in particular on maps. Compasses can be used for mathematics, drafting, navigation and other purposes. In mathematics, drawing and drafting to create</p>	<p>https://www.brighthubeducation.com/lesson-plans-grades-3-5/96243-teaching-students-how-to-use-a-compass/</p> <p>This link helps you as the teacher learns how to use the compass. You could also use it to learn with the students. An activity you could use is an easter egg hunt or a scavenger hunt. This way the students could really get an</p>

		<p>arcs, circles or other geometric figures that can be determined by measuring intersecting line segments. A compass can be used to bisect lines, find midpoints and help solve problems in geometry.</p>	<p>understanding of using the tool.</p>
Tangrams		<p>Using tangrams gives students an opportunity to use a manipulative set to construct understanding of geometric ideas. Using tangrams can help students develop spatial skills. They can move the pieces around to note the relationships, and learn about flips, slides and turns (reflections, rotations, and translations).</p>	<p>A great activity with the Tangrams would be a puzzle activity. The teacher could create the puzzle and asks the student to recreate the puzzle. This is good for allowing the student to be able to think and see if they can manipulate the shapes.</p>
Balance Scale (could also be listed under the algebra section)		<p>Balance scales are a tool used to concretely teach children about weights and equivalency measures. Exploring and seeing the concept in action will impress the principles on their minds better than more passive activities or worksheets. Once the students are familiar with the scales and concepts of varying weights, begin using the scales to teach mathematical</p>	<p>https://classroom.synonym.com/elementary-math-activities-balance-scales-8046480.html</p> <p>This link provides you ways you could use the scale within the classroom and not only use worksheets. This allow for the concept of the balance scale to be seen and not only heard about.</p>

		<p>functions like addition and subtraction. Show them how to put a number of beans on one side of the balance and a lesser number on the other. See how many beans have to be added to the smaller side to balance (equal) the first side. In the same way, they can subtract beans from the first amount to get it to balance the lesser amount. Have them write each transaction as an equation.</p>	
T Squares		<p>A T-square is a technical drawing instrument used by draftsmen primarily as a guide for drawing horizontal lines on a drafting table. It may also guide a set square to draw vertical or diagonal lines. A T-square has two components—the long shaft called the "blade" and the short shaft called the "stock" or "head". The T-square usually has a transparent edge made of plastic which should be free of nicks and cracks in order to provide smooth, straight lines.</p>	<p>https://www.doityourself.com/stry/how-to-use-a-t-square</p> <p>This link show you how to use the t square. Since it is similar to a ruler alot of measurement activitvies or worksheet would be good. Also a drawing activity could be perfect.</p>
Geo-Mirror		<p>Explore reflections, congruence, and symmetry in the special reflective</p>	<p>https://learn.teachingchannel.com/video/teaching-transformations</p>

		<p>surface of the GeoReflector. Made of colorful, durable, transparent plastic, the GeoReflector Mirror measures 3-3/4" x 5-3/4" .The Geo- Mirror is a transparent geometric tool with the reflective quality of a mirror makes it easy to bisect angles and Explore slides, rotations, and flips.</p>	<p>This link provides an insight on how to effectively use the geo mirror within the classroom.</p>
<p>Tinker Toys</p>		<p>Tinkertoys are a beloved, classic toy that bring teachers and students together. Now made in both plastic and wood, TINKERTOY sets provide satisfying and long-lasting play. With over 100 years of fun, TINKERTOY inspires students everywhere to stretch their imaginations. This would be perfect to use within the classroom. Think of the projects you could have the students do, and inspire the next generation of STEM students.</p>	<p>https://classroom.synonym.com/tinker-toy-activities-team-building-12158667.html</p> <p>This link gives you creative ways to use the tinker toys for team building. Team building is important in the classroom and tinker toys are the way to go. This link has multiple ideas and you could branch off and make some ideas as your own.</p>

Wooden Protractor		<p>A protractor is a measuring instrument, typically made of transparent plastic or glass, for measuring angles. Most protractors measure angles in degrees ($^{\circ}$). Radian-scale protractors measure angles in radians. Most protractors are divided into 180 equal parts. Some precision protractors further divide degrees into arcminutes. These wooden protractor are the same as the ones commonly found today, but if you want that vintage feeling these are perfect for you.</p>	<p>https://study.com/academy/lesson/protractor-games-activities.html</p> <p>This is an example of a lesson plan that could be implemented within yours to add a lesson with wooden protractors. This gives you a game that can be played with students. This game is interactive and seems alot of fun.</p>
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