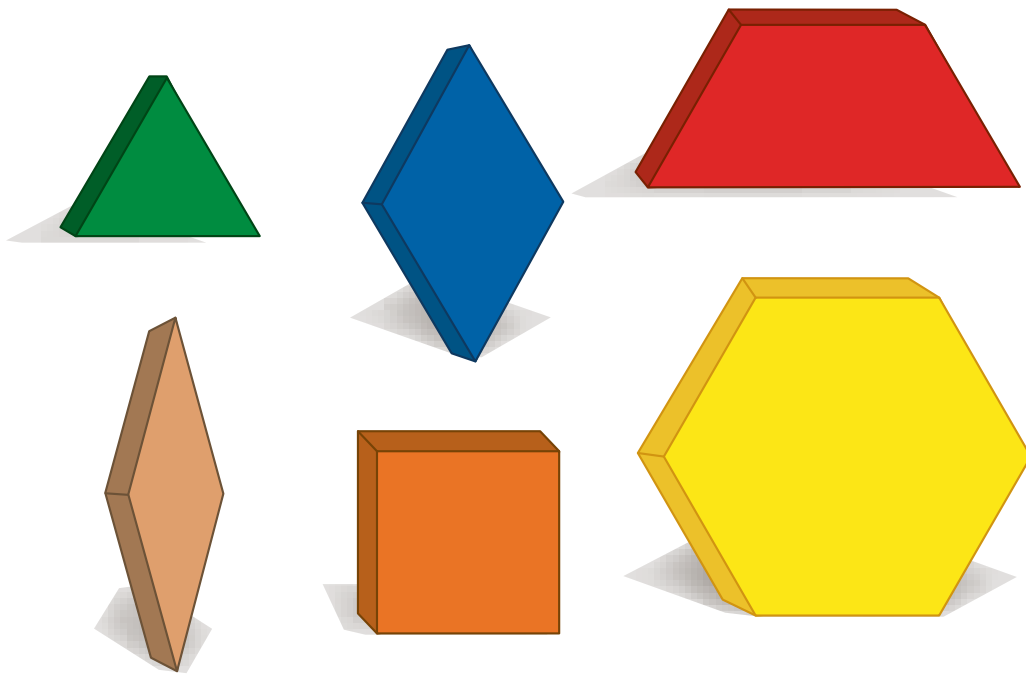


Math Tasks

with Pattern Blocks



Alignments

ACTIVITIES - 86579

Page	Activity Name	Description	Math Strand	Topics
12	Antwalks	Students use a prescribed set of Pattern Blocks to create shapes around which an ant could walk. They then measure the length of the ant walks.	Problem Solving, Communication, Reasoning, Connections, Geometry, Measurement	Addition, Counting, Perimeter
16	Closest to the Finish Line	Students play a game in which they place Pattern Blocks along a strip of adding machine tape and attempt to end up closest to the designated finish line.	Problem Solving, Communication, Reasoning, Connections, Logic, Probability/Statistics	Chance, Estimation, Game Strategies
20	Copy Cat	Students use Pattern Blocks to create shapes that have reflective symmetry across a horizontal or vertical line.	Problem Solving, Communication, Reasoning, Connections, Geometry	Spatial Visualization, Symmetry
24	Cover the Caterpillar	Students find combinations of blue and green Pattern Blocks that can be used to cover four yellow hexagons.	Problem Solving, Communication, Reasoning, Connections, Number, Patterns/Functions	Counting, Equivalence, Patterns
28	How Many Chairs?	Students use Pattern Blocks to analyze patterns and observe the ways in which counting, adding, and multiplying relate to one another.	Problem Solving, Communication, Reasoning, Connections, Patterns/Functions	Counting, Multiples, Spatial Visualization
32	Look How I'm Growing	Students build the first two stages of a pattern using Pattern Blocks. Then other Students extend the pattern and describe how the shape is growing.	Problem Solving, Communication, Reasoning, Connections, Patterns/Functions	Counting, Pattern Recognition, Using Patterns
36	One Hundred	Students estimate the area that would be covered by a given number of Pattern Blocks.	Problem Solving, Communication, Reasoning, Connections, Geometry, Measurement, Number	Area, Comparing, Counting, Estimation, Spatial Reasoning
40	Pattern Block Pizza	In this game for two players, Students take turns trying to cover hexagon "pizzas" with Pattern Block "toppings."	Problem Solving, Communication, Reasoning, Connections, Geometry, Number, Probability/Statistics	Area, Chance, Counting, Equivalence
44	Pattern Block Toy Factory	Students use Pattern Blocks to design toys. Given the monetary value of the green triangle, red trapezoid, blue parallelogram, and yellow hexagon, Students then find the total cost of their designs.	Problem Solving, Communication, Reasoning, Connections, Geometry, Number	Addition, Comparing, Counting, Money, Multiplication

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48	Shapes Inside of Shapes	With Pattern Blocks, Students will combine polygonal shapes to create larger polygons.	Problem Solving, Communication, Reasoning, Connections, Geometry	Polygons, Congruent Triangles, Area
52	Red, Green, or Yellow?	Students use strategies to predict which of three kinds of Pattern Blocks can be used to fill a cup with a specified number of blocks.	Problem Solving, Communication, Reasoning, Connections, Measurement, Number	Counting, Estimation, Volume
56	Scoop and Sort	Students take random samples of Pattern Blocks, sort them, and record their results.	Problem Solving, Communication, Reasoning, Connections, Number, Probability/ Statistics	Comparing, Counting, Graphing
60	Measurement Mania	Students will split into pairs and use Pattern Blocks of different shapes and sizes to measure common objects.	Problem Solving, Communication, Reasoning, Connections, Measurement	Length, Non-Standard Measurement, Comparing
64	Spin to Win	Students play a game in which they spin for Pattern Blocks and use the indicated Pattern Blocks or an equivalent combination of blocks to cover a game board.	Problem Solving, Communication, Reasoning, Connections, Geometry, Logic	Equivalence, Game Strategies, Properties of Geometric Shapes, Spatial Visualization
68	Things With Legs	Students give their imaginative talents free rein as they use Pattern Blocks to create pictures of anything that has legs. Then they sort their pictures and post them as a graph.	Problem Solving, Communication, Reasoning, Connections, Geometry, Logic, Number	Comparing, Counting, Graphing
72	Three in a Row	Students take turns making secret designs with three Pattern Blocks and describing them to their partners who try to make the designs from the clues they are given.	Problem Solving, Communication, Reasoning, Connections, Geometry, Logic	Properties of Geometric Shapes, Spatial Reasoning
76	Who Am I?	Students create a Pattern Block design, then find a way to describe one block in their design in such a way that other Students can use the description to identify that block.	Problem Solving, Communication, Reasoning, Connections, Geometry, Logic	Following Directions, Properties of Geometric Shapes, Spatial Reasoning
80	Who Caught the Bigger Fish?	Students use Pattern Blocks to compare the areas of two fish shapes to decide which is bigger.	Problem Solving, Communication, Reasoning, Connections, Geometry, Measurement	Area, Comparing, Counting, Equivalence