# Math Tasks with Color Tiles <br>  <br> Allignments 

## ACTIVITIES - 86582

| Page | Activity Name | Description | Math Strand | Topics |
| :---: | :---: | :---: | :---: | :---: |
| 12 | Building Rectangles | In this activity, Students are introduced to the distributive property through visual models using Color Tiles as they explore ways to break apart rectangles to find area. Students will make a rectangle using Color Tiles, break it into two rectangles, and find the number of tiles in each rectangle. | Problem Solving, Communication, Reasoning, Connections, Measurement, Number | Area, Properties of Number, Multiplication |
| 16 | Ben's Garden Plot | Students use Color Tiles to design plots for a garden. | Problem Solving, Communication, Reasoning, Connections, Geometry, Measurement, Number | Area, Comparing, Counting, Perimeter |
| 20 | Building a Wall | Students create a two-color pattern for a Color Tile wall. They extend the pattern and then determine how many tiles would be needed to repeat the pattern a given number of times. | Problem Solving, Communications, Reasoning, Connections, Geometry, Number, Patterns/Functions | Comparing, Counting, Multiplication, Patterns |
| 24 | Changing Areas | Students build a Color Tile shape and then find its perimeter. They build other shapes with the same perimeter and then find the area of each of these shapes. | Problem Solving, Communication, Reasoning, Connections, Geometry, Measurement | Area, Comparing, Perimeter |
| 28 | Coasting Along | Students use Color Tiles to design square coasters. They record their design and then determine the fractional part of the whole that each color represents. | Problem Solving, Communications, Reasoning, Connections, Geometry, Number | Comparing, Fractions |
| 32 | Cover Up | In this game for two to four players, Students build Color Tile arrays to cover spares on a hundred board according to a roll of a pair of number cubes. | Problem Solving, Communications, Reasoning, Connections, Geometry, Number, Patterns/Functions | Multiplication, Patterns, Properties of Numbers, Spatial Visualization |
| 36 | Fraction Bars | Students use Color Tiles to build a fraction bar that represents a whole. They write a set of clues to enable others to build the fraction bar. | Problem Solving, Communications, Reasoning, Connections, Number | Addition, Fractions |
| 40 | Growing Rectangles | Students use Color Tiles to build rectangles that "grow" in a predictable way. Then they predict the number of tiles needed to produce the rectangle that represents 10 more stages of growth. | Problem Solving, Communications, Reasoning, Connections, Geometry, Patterns/ Functions | Growth Patterns, Multiplication, Predicting, Rectangles |
| 44 | Logic Riddles | Students create riddles that provide clues about Color Tiles that they have hidden in a paper bag. Then they try to solve one another's riddles. | Problem Solving, Communication, Reasoning, Connections, Logic, Number | Counting, Deductive Reasoning, Fractions |

## CHALLENGE ACTIVITIES - 86582

| Page | Activity Name | Description | Math Strand | Topics |
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