# Math Tasks with Snap Cubes ${ }^{\circ}$ 



## ACTIVITIES - 86590

| Page | Activity Name | Description | Math Strand | Topics |
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| 12 | Frac-Tangles | Using Snap Cubes, students make rectangular prisms from clues given about the fractional mix of colors. | Problem Solving, Communication, Reasoning, Connections, Geometry, Number | Equivalence, Fractions, Proportion, Ratio |
| 16 | Nothing But Net! | In this two-player game, students work together with Snap Cubes to create three-dimensional geometric solids. Players create the nets, then use them to determine surface area. | Problem Solving, Communication, Reasoning, Connections, Geometry | Nets, ThreeDimensional Shapes, Shape Recognition, Spatial Visualization and Reasoning |
| 20 | Snap to It! | In this activity, students build models of perfect cubes using Snap Cubes. They record data, look for patterns, and make conjectures. | Problem Solving, Communication, Reasoning, Connections, Number | Properties of Number, Cubic Numbers, Exponents, Number Relationships |
| 24 | Penta Nets | Students build a structure with three Snap Cubes and draw a grid paper net that could be used to cover the structure. | Problem Solving, Communication, Reasoning, Connections, Geometry | Spatial Visualization, Surface Area |
| 28 | Functions and Patterns | In this activity, students will build models using Snap Cubes. They will record data about each structure, look for patterns, and make conjectures. They will also interpret the meaning of the initial value and rate of change for a linear function. | Problem Solving, Communication, Reasoning, Connections, Patterns/Functions | Numbers, Patterns, Counting |

## CHALLENGE ACTIVITIES - 86590

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| 32 | Pentacube and Hexacube Twins | Students use Snap Cubes to build five-cube and six-cube structures. Students identify which of their structures are reflections of each other and draw them on isometric dot paper | Problem Solving, Communication, Reasoning, Connections, Geometry, Measurement | Congruence, Spatial Visualization, Transformational Geometry |
| 38 | Slice'n'Dice Cubes | Students form cube and rectangular prism structures using Snap Cubes and imagine them being dipped in paint. Students investigate the patterns formed by the cubes that have paint on a given number of faces. | Problem Solving, Communication, Reasoning, <br> Connections, Geometry, Measurement, Number, Patterns/Functions, Probability/Statistics | Algebra, Organizing Data, Surface Area, Volume |
| 44 | Saving Paper | Students build four-cube structures made from Snap Cubes, and design nets that could be used to cover the structures. Students search for efficient ways to cut multiple copies of them from cardboard rectangles. | Problem Solving, Communication, Reasoning, Connections, Geometry, Patterns/Functions | Euler's Formula, Nets, Spatial Visualization, Surface Area |


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