



LHS GEMS Build It! Festival

Provided by:

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Information	Program Description
Kindergarten-6th Grade	Bring out the builder in all of your students! These open-ended activities allow for students to learn new mathematical skills through hands-on learning activities using pattern blocks.
Curriculum Format	Each lesson can be presented in 45-60 minutes. Teaching Guide with complete instructions is provided. Teaching Kit with materials needed to present lessons is provided. User may need to provide standard classroom supplies (pencils, scissors, glue). If a lesson requires perishable items (e.g. milk), user is responsible for these purchases.

Lesson	Overview
One: Create-A-Shape	Students predict what three-dimensional shapes might be formed when two-dimensional patterns are cut out and folded into three-dimensional shapes.
Two: Fill-A-Shape	Students use pattern blocks to fill star, rectangle, hexagon, triangle and dodecagon shapes that are outlined on shape cards.
Three: Symmetry	Students explore bilateral symmetry as they make designs with pattern blocks.
Four: What Comes Next?	Students decode patterns constructed out of pattern blocks and then continue building the pattern.
Five: Tessellations	Students use pattern blocks to cover a tessellation tiling on a card and then continue building the tessellation so it fills the entire card.
Six: Tangrams	Students make their own tangrams and use them to complete various tangram puzzles.

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