

Minecraft Night

Ray County Library

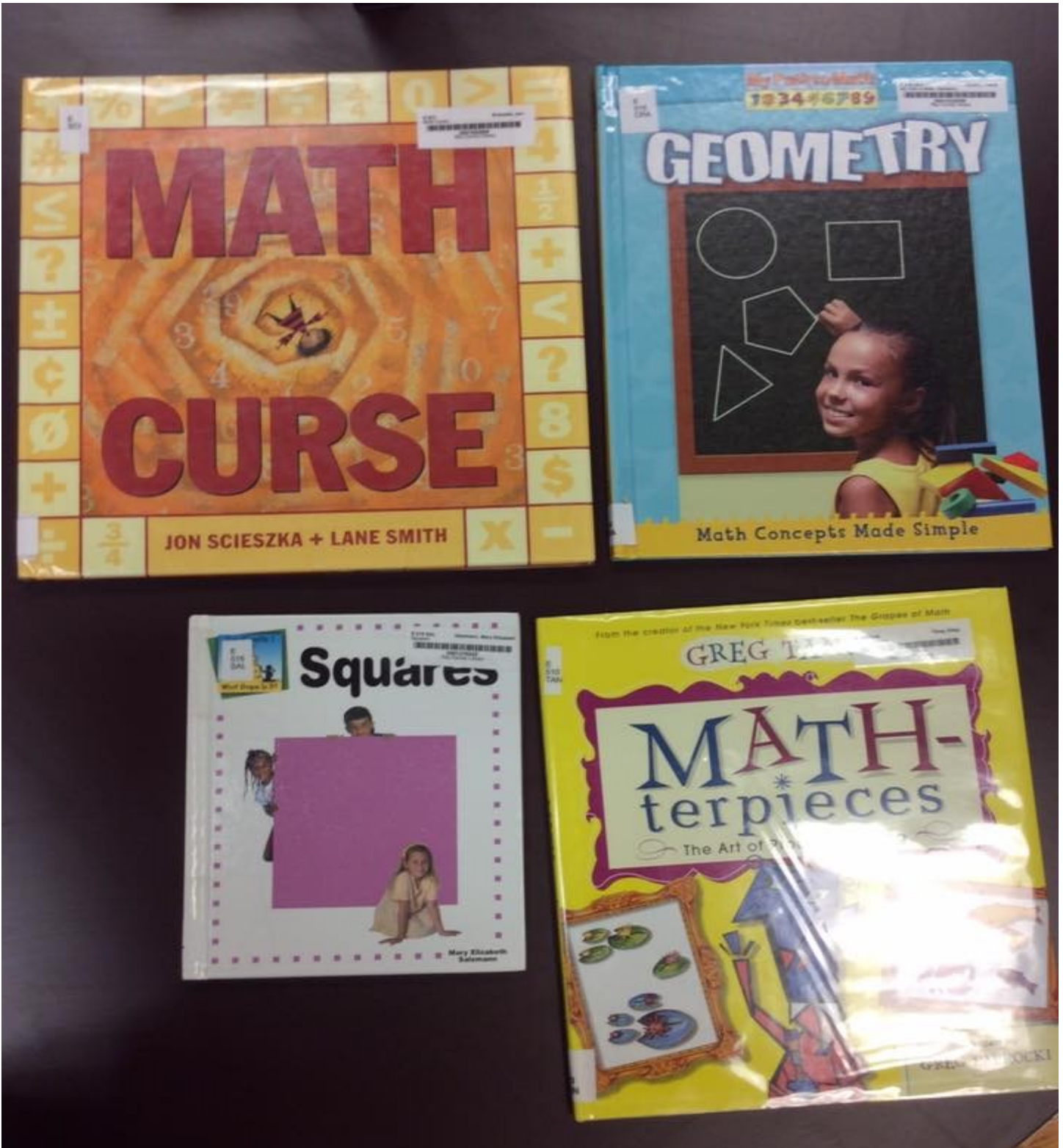
I started Minecraft night by reading the *Math Curse* by Jon Scieszka and Lane Smith . This book is about a girl who becomes anxious throughout the day because everything is a math problem. She finally breaks the math curse by solving the problems.

I started with this book because math is everywhere including Minecraft. I focused on learning perimeter and area. I had the children sit around the perimeter of the square to listen to the story. Several of the kids calculated the perimeter before I started the story.

I had areas for the children to make Minecraft selfies <https://artprojectsforkids.org/minecraft-self-portraits/> and Minecraft tools with melty beads. These focused on finding perimeter and area. I also had a dice game for counting and addition practice. <http://activity-mom.com/2014/06/minecraft-dice-game/>. They also made mine craft blocks.

Overall the favorite activity was the melty bead tools.

Math Books



Minecraft Books



Make Mine Craft Tools with Melty/ Fuse Beads



Make Minecraft tools

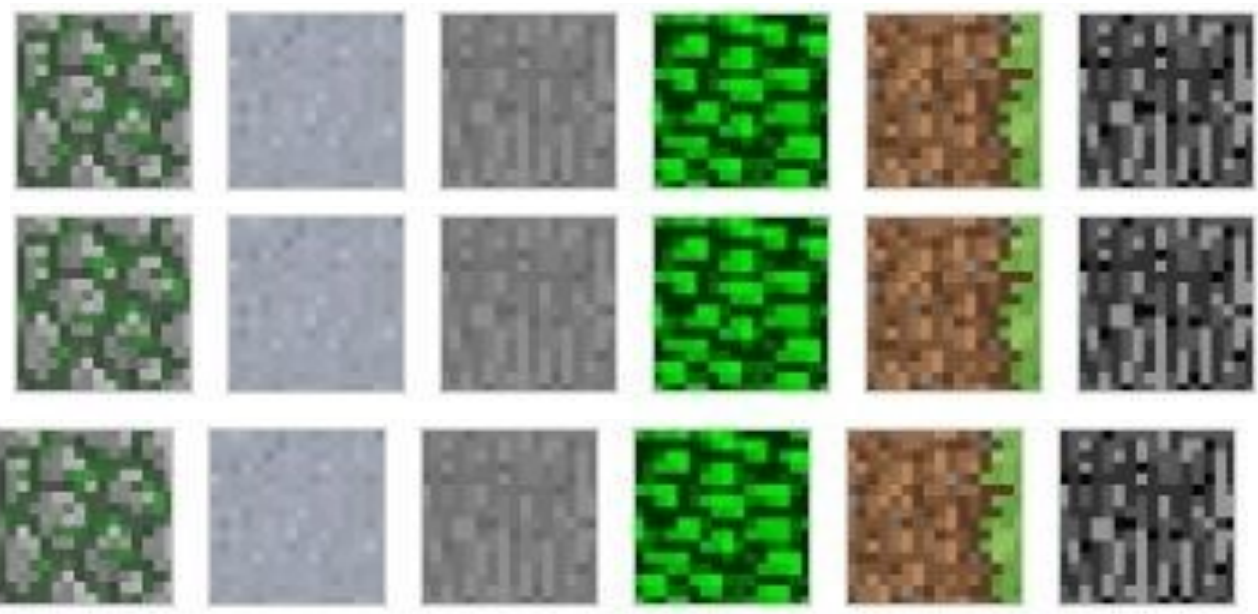
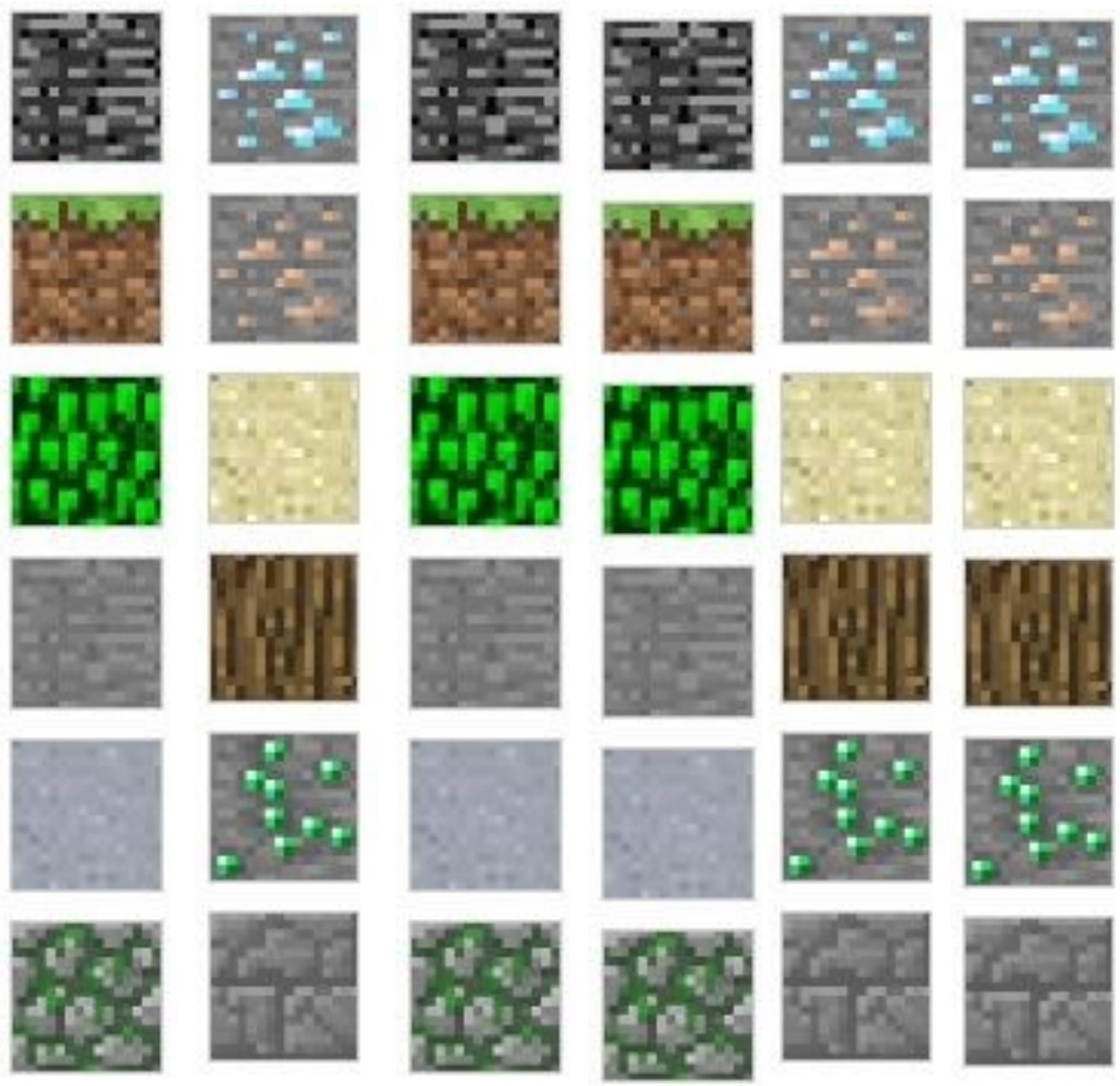
May only be completed with adult supervision

1. Choose your design
2. Place fuse beads on the board in the pattern of the design
3. Cover the beads with a sheet of wax paper.
4. Keep the iron level and slowly move it in a circular motion for about 30 seconds while pressing the beads very gently. Be careful not to bump the beads from the pegboard.
5. Slowly peel the paper from the beads.

Fuse beads can be found at Walmart or Oriental Trading Company.

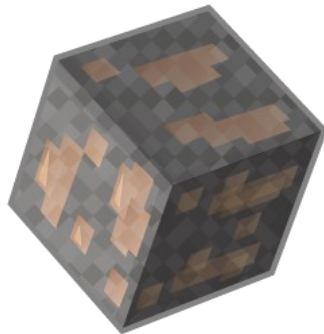
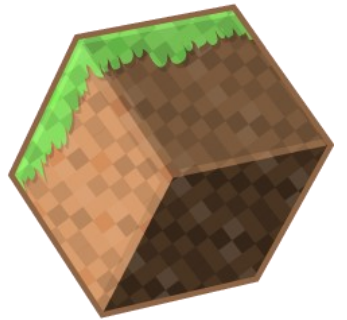
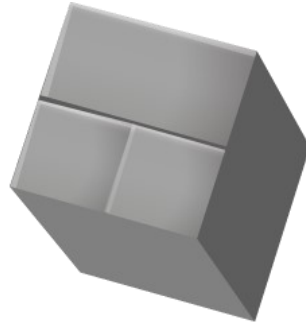
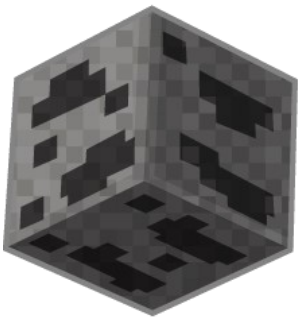


These patterns can be cut out and taped on the back of the peg board.



Make Minecraft blocks

Use paper and glue or crayons to make your
Minecraft blocks.



Minecraft Building Challenges

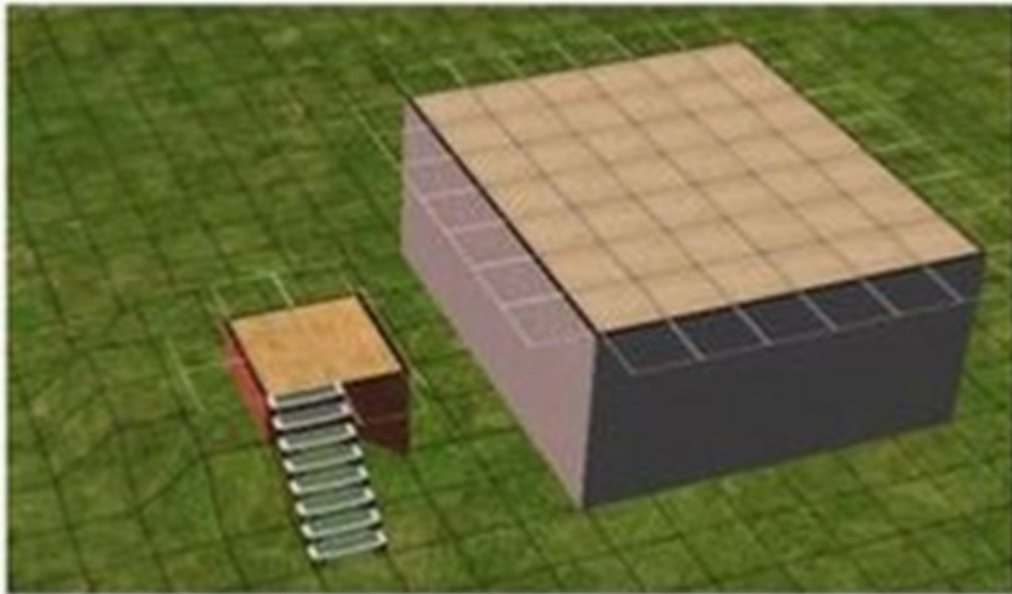
Is there another way you could build a structure with a perimeter of 20 (using only 20 blocks)?

(Design must be different from photo below)



Minecraft Building Challenges

What patterns can you see in relation to total number of blocks and length of each side?

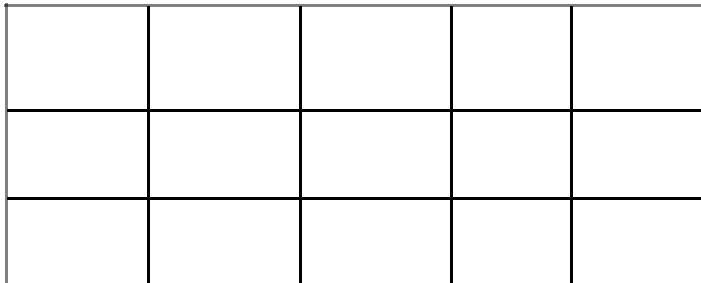


How might we change the structure (shape) of the building but keep the same number of tiles for the roof?

The perimeter of a shape is always calculated by adding up the length of each of the sides.

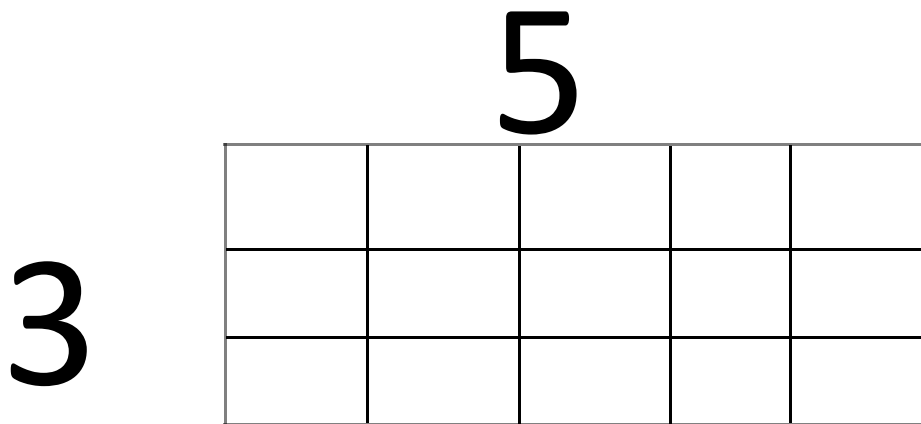
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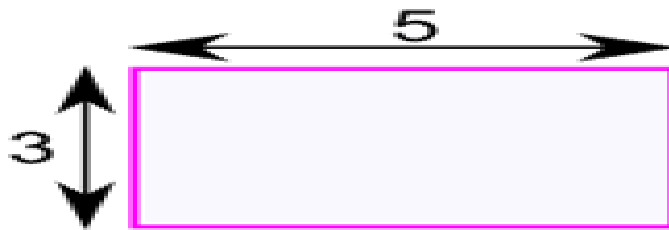


Area

The number of squares inside the box.



Example: What is the area of this rectangle?



The formula is:

$$\text{Area} = w \times h$$

w = width

h = height

The width is 5, and the height is 3, so we know **w =**