

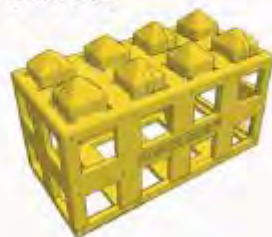
# Engineering Discoveries: Strong, Stronger, Strongest!



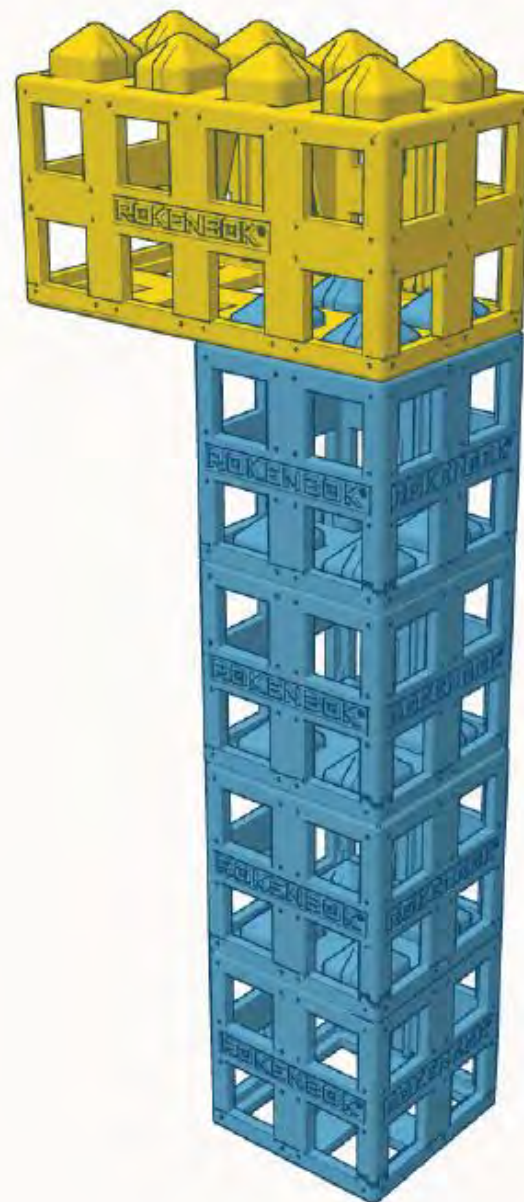
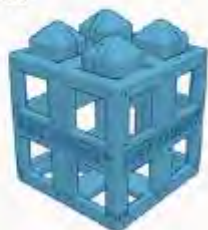
# Hammer Challenge



**1x**  
Yellow ROK Block



**4x**  
Blue ROK Block



## Single Snap Block



## Snapping Into Opening



## Snapping Across Openings



# Build a stronger hammer

1. Your hammer must be a different design than hammers previously built.
2. Your hammer design must include snapping across openings.
3. Feel free to experiment to see how other Rokenbok components might help make a stronger hammer.

# Designing for cost

1. Your hammer must be a different design than hammers previously built.
2. With each piece costing \$2, the total cost of the hammer should not be more than \$20.
3. Teams will have 10 minutes to design and engineer a strong, cost-effective hammer.

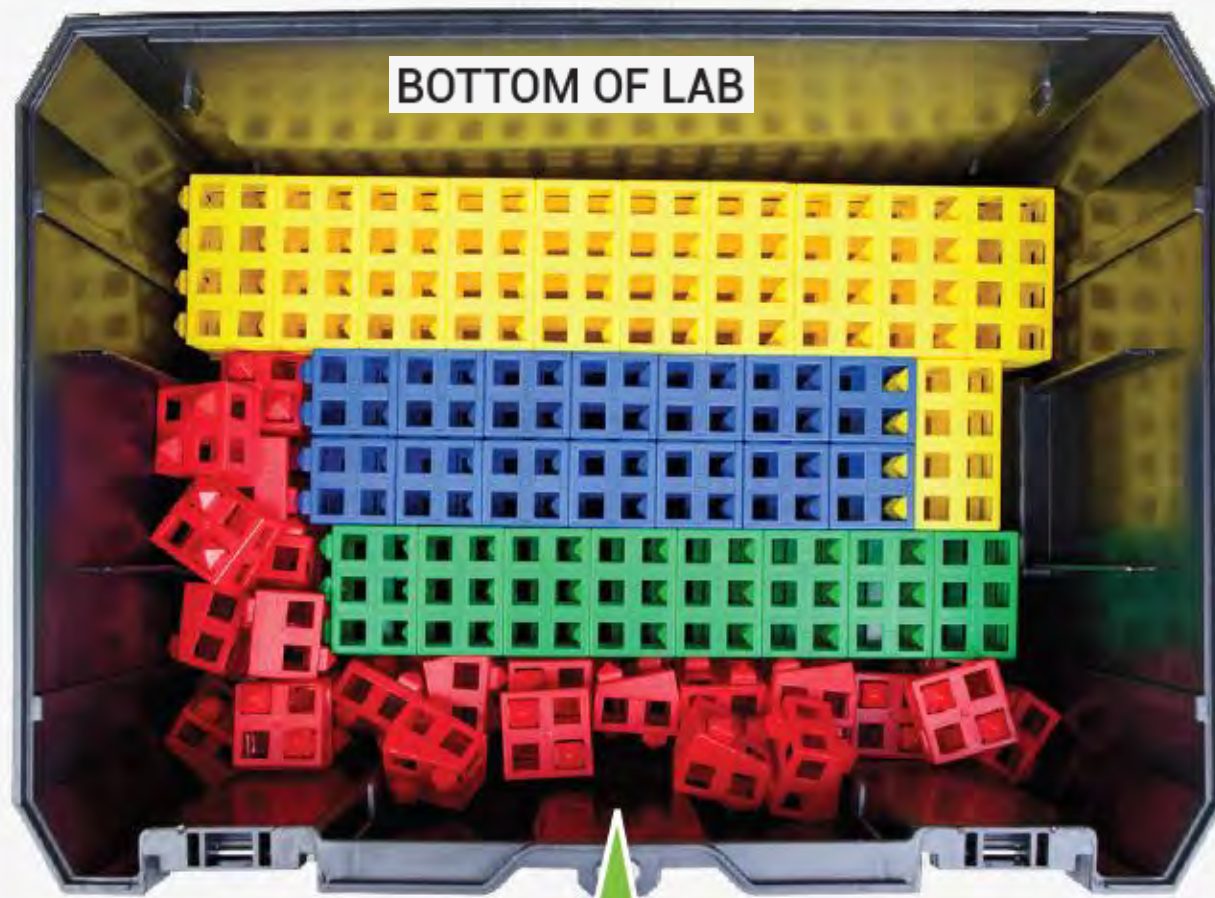
# Designing with empathy





1. Your hammer must be a different design than hammers previously built.
2. With each piece costing \$2, the total cost of the hammer should not be more than \$20.
3. Your hammer must be easy to grip and comfortable to use.
4. Teams will have 10 minutes to design and engineer a hammer that is strong, cost-effective, easy to grip, and comfortable to use.

A decorative border with diagonal stripes in yellow and black surrounds the central white area.

Clean Up

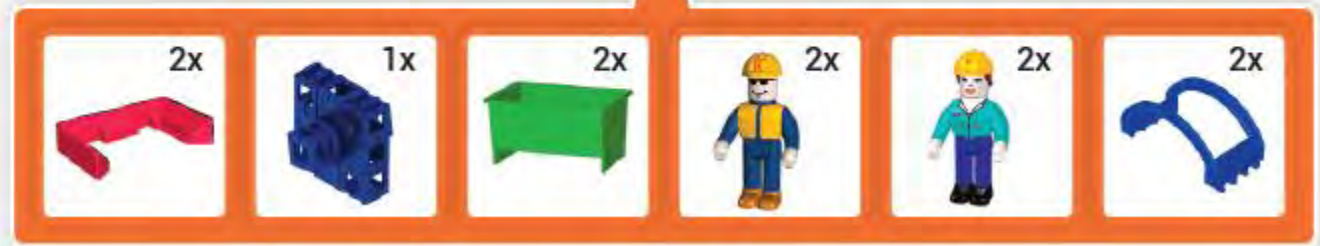
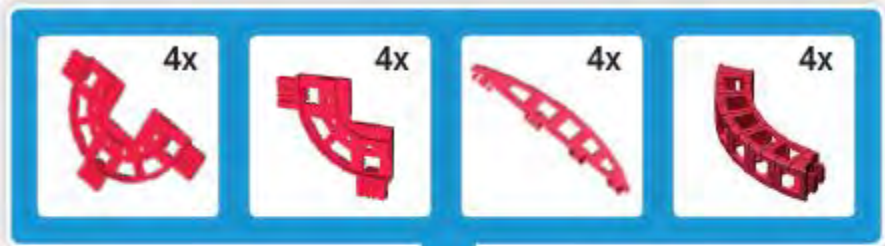
BOTTOM OF LAB



 <p>22x</p>	 <p>16x</p>	 <p>28x</p>	 <p>36x</p>
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ROK Block rows are 2 blocks deep.

# TOP TRAY



# MESH SACKS

Place mesh sacks underneath top tray.

