

# STEM Cubs @ home

Engage in STEM (Science, Technology, Engineering and Mathematics) by working on real engineering design problems at home! In past STEM cubs in-person sessions, students have worked on projects like building a structurally sound bridge, developing coating for pills, understanding features of buoyancy and static electricity, creating towers, and more.

Discover many more projects, activities, and challenges that you can do at home with common household items from this list of resources.



Take a photo of your project and tag @MizzouDiversity on Facebook or Twitter!

**PBS Building Big:** bridges, domes, skyscrapers, dams, and tunnels  
<https://www.pbs.org/wgbh/buildingbig/index.html>

**Science Snacks:** do-at-home science activities from San Francisco's Exploratorium  
<https://www.exploratorium.edu/snacks>

**Science Buddies:** STEM activities for kids  
<https://www.sciencebuddies.org/stem-activities>

**STEM Inventions :** Original DIY designs from truss bridges to rubber band race cars, helicopters and rockets  
<https://www.stem-inventions.com/>

**4-H Inspire Kids To Do Activity Guide** (PDF)  
<https://4-h.org/wp-content/uploads/2020/01/4H-Activity-Guide-Final-0126-2020.pdf>

**4-H STEM Lab:** Hands-on activities designed to instill curiosity and critical thinking  
<https://4-h.org/parents/stem-agriculture/youth-stem-activities/>

**Funology: Science Experiments** - fun and educational experiments  
<https://www.funology.com/funology-science-experiments/>

**Engineering for Every Kid** (PDF)  
<http://www.arvindguptatoys.com/arvindgupta/engineering-janice.pdf>

**STEM Cubs** is a free STEM day camp that serves students in grades K-5 on the University of Missouri's campus at the College of Engineering. The program emphasizes the importance of exploratory and experiential learning. **Contact:** [ENGRinclusivity@missouri.edu](mailto:ENGRinclusivity@missouri.edu)

