

# SUMMER UNPLUGGED

## 5 Design Challenges for July

### WEEK 1

#### FROZEN FIREWORKS

What if you could freeze a firework? What would it look like in 3D? Design your own non-flammable model. How can you share your celebration with others? Is it wearable, shareable, or viewable from afar?



### WEEK 2

#### SUNSHADE

When the sun beats down, stay protected by designing your own sunhat. Make a hat that shows off your special style. Perhaps you can design for someone else or a special celebration. Add all of your favorite features (water bottle, music etc.) for sunny day fun.



### WEEK 3

#### WATER COURSE

Cool off from the summer heat and design a miniature water park. See how many different ways you can get the water to move. Will it splash? Will it waterfall? Will it spray your unsuspecting riders?

**Bonus challenge:** Can you find a way to reuse/recycle the water?



### WEEK 4

#### TRAVEL DESTINATION

Create a map, model, or sketch of your ideal travel destination. Real or imaginary! Who would you take with you? What would they need/want to do? How can you make it fun for everyone?



### WEEK 5

#### YOUR BIGGEST FAN

Making your own fan is a breeze! Create your own designs for a hand or foot-powered fan. Get inspired by windmills and pinwheels! What shapes and materials will work best to keep you cool? How can you make your fan move with the least effort?

