



STEMtastic Summer Challenge



a photo of it or draw it

duct tape

Solve a problem with a piece of

Summer is the perfect time of year to explore STEM (science, technology, engineering, and math) and try new things! Complete at least 20 activities then visit the GSCTX shop to buy your patch. Send pictures of your adventures to www.gsctx.org/share.

Create art using crayons and the sun Try a new mode of	Draw a design for a device that makes life easier for a differently abled person	Build a shelter for a fairy from found objects that will protect he from wind and rain
transportation: boat, plane, train, bus	Make a cardboard car that uses a rubber band to make it go	Look at something up close. Use a magnifying glass, microscope, or
Cross three different kinds of bridges: suspension, lift, truss, arch	Design and draw a picture of a future mode of transportation Explore space science by tracking	binoculars Use yeast to bake bread that rises Upcycle a can into something fun
Ask an architect or builder to show you how to read blueprints	phases of the moon for several weeks	or useful Visit a car dealer and ask about
Be an engineer and build a play fort	Find a local stream and determine what larger body of water it will	safety features on cars Hunt through a hardware store
Write an algorithm for making a sandwich	flow into Propagate a plant	and find wire, rope, screws, and tape
Try a family citizen scientist activity with the SciStarter app	Go on a fossil hunt Explore space science by	Visit a science museum Make an article of clothing using a
Make a musical instrument with a rubber band to	identifying a planet or a constellation	new tool or method Identify three plants that you
explore sound vibrations Find out what the SPF on your sunscreen means	Ask an adult for a story about something that was invented in their lifetime	don't know Use a tool you've never tried before to fix or make
Watch for a rainbow after a storm. How does the light break	Identify seashells you find by their scientific names	something useful Sew something using a sewing
into colors? Create a board game using math	Experiment with paper airplanes to make them go faster, farther,	machine Find directions to a favorite place
concepts and recycled materials Talk to someone who has a job in a STEM field	and straighter Learn how to use thunder to determine your distance from a	by using both a paper map and a digital app
Take a ride to watch wind towers	lightning strike Make fingerprints on paper using	Upcycle old newspaper or magazines into a piece of jewelry
Browse a store or your home and find fabrics that are soft, rough,	a washable marker; add arms, legs, and eyes for fun!	Pick a home appliance and compare model features in the store
thick, thin, waterproof, and sparkly	Make a beauty product with common items from the kitchen	Try a fruit or vegetable that you've never tasted before
Cook something using foil wrap, a box, and the sun	Double a recipe or cut it in half Build a sandcastle	Throw a ball and use your feet to estimate how far you threw it
Visit a dam or hydroelectric plant With an adult, use GPS to locate a geocache	Create a safe cleaning product using common ingredients from the kitchen	Completed your 20 activities?
Invent an outdoor game that uses two different senses	Use a cup and ruler to measure rainfall	Get the patch at the GSCTX shop!
Make up a secret code and send notes to a friend	Learn about energy conductors/insulators and how to keep safe in an electrical storm	ESTEM TAGE

☐ Make something using wire cutters and pliers

☐ Explore static electricity