

# Sneak Peek!

## Bouncing Beads

Discover the mysteries of light and optics through UV light in this bead activity and craft your own frog friend!

Create Sunprints using light-sensitive paper and objects from nature. Discover how light and chemical reactions work together to form stunning images.

## Nature's Blueprint

## Private Periscopes

Build your own periscope and uncover how light bends, reflects, and travels through different materials.

Write and test your own block code path across a space-themed grid using teamwork and logic. The challenge: can another camper follow your instructions without error?

## Hour of Code on Paper

## Moving Memories

Discover how different parts of the brain help us remember. Then test your memory and explore how movement affects recall through an interactive challenge!

## The Encryptables

Unlock the secrets of encryption and decryption with the pigpen cipher, then send and decode messages using micro:bits.

## Night Fliers

Take flight with your own bat-inspired glider and put your design to the test. You'll learn how aerodynamics and biology come together in engineering.

## Evolving Skylines

Design and grow your own futuristic city in TinkerCAD, adapting it to survive surprise disasters and challenges in real time.

## E.T Goes Home

Build and optimize a Smart Bike using teamwork, Lego robotics, and code. You'll learn engineering skills and race to make it move as fast as possible!

## You Can't Escape Math

Write and test your own block code path across a space-themed grid using teamwork and logic. The challenge: can another camper follow your instructions without error?

## StoryGPT

Turn words and emojis into creative stories by building your own app with MIT App Inventor and a chatbot interface.

## Spherification Investigation

Dive into the world of molecular gastronomy by creating colourful spheres while exploring states of matter and fascinating chemical reactions.

## Crazy Catapults

Get hands-on with physics as we explore energy transfer by designing, building, and launching our own elastic-powered catapults.

## The Great Wall of Cyber

Build a LEGO wall to defend against incoming virus "attacks" and explore the basics of cybersecurity and digital defense.

## A Silent Voice

Build a working hand model and use it to form ASL letters. It's a journey through anatomy, biomechanics, and non-verbal communication.

## Engineering Cycle Tag

Put your speed and smarts to the test in this fast-paced tag game inspired by the engineering cycle. Each player represents a stage, as you race to complete the loop while avoiding bean bag obstacles!

# Group Activities

## Liquid Nitrogen Ice Cream

See your ice cream made in record time! Enjoy a scoop of extra creamy ice cream, made using Liquid Nitrogen right in front of your eyes!

## Friday Fun

A jam-packed afternoon of life-sized games, water sports, Freezie fun, and chalk drawings! End your week with ESQ with a bang!

## Camp Trivia

Hope you were paying attention, because it's time to put your knowledge to the test! Compete with your fellow campers in a game of trivia!