TGR LEARNING LAB

2024 SUMMER DAY PROGRAM APPLICATION

Rising 5th – 6th Grade Students
Application Deadline: **Friday, May 31**

Dear Prospective TGR Learning Lab student,

Thank you for your interest in the TGR Learning Lab. This application includes information about our summer program and the application process.

Description of Summer Day Program: The TGR Learning Lab is offering summer classes for students who are interested in a hands-on, interactive, career-focused experience. Classes are open to students who will be entering the 5th and 6th grades in the fall of 2024.

Timeframe: Classes are held Monday – Thursday from 9 a.m. to 12 p.m. There are five weeklong sessions to choose from, and students may register for one class per week.

Fees: The cost is $30 per class for TGRLL members and $40 per class for non-members. To be a member, students must have participated in a program at the TGR Learning Lab. Payment is due when the application is submitted. Please see the registration form for payment options.

ID Badge: One ID badge will be made for each student accepted into the summer program. This ID badge will be used throughout the entire duration of the summer program from June 24 to August 1. There will be a $5 charge to replace a lost or misplaced ID badge. All students must wear their ID badge to enter the building.

Application Process: There are three steps in the application process. Classes are filled on a first-come, first-served basis. If the classes selected are full, students will be contacted about alternative options. There are a limited number of spaces per class; early application submissions are encouraged. Please follow all directions and use the checklist below to complete each step:
- Step 1: Select classes.
- Step 2: Complete the registration form.
- Step 3: Submit the application, grade verification and payment by mail or drop it off at the TGRLL.

Grade Verification: A copy of a student applicant's most recent report card is required to verify their current grade level. Applications will not be processed without a copy of the student's most recent report card.

Cancellation Policy: Students who wish to cancel their participation must inform the TGR Learning Lab in writing at least 15 days before the start of class to receive a refund. No refunds will be granted after this time. Cancellations will only be accepted in person or through email or fax messages.

We hope to see you at the TGR Learning Lab this summer.

Session 1: June 24 – 27

Intro to Robotics
This robotics class is ideal for beginners. You will build and program robotics using LEGO Education SPIKE Prime Set. Working in pairs, you will learn about gears, motors and sensors, as well as the basics of building, programming and mechanical design.

Intro to Photography
Learn the basics of digital photography and explore how the science of light and optics, the math of ratios and proportions, technology and engineering all play into how a camera works. You will take photographs every day and produce a small digital portfolio to take home at the end of the week.

Par-Tee Time: Golf Fundamentals
This class is designed for aspiring golfers. In a boot camp style, students will learn the proper stance, grip and swing techniques. The class will also cover the rules and etiquette of golf. Students will learn how to navigate the golf course and play with proper etiquette.

Space Quest
Look into the night sky and what do you find? If you have ever wondered what is out there, this is the class for you. You will explore topics ranging from the comparison of the sun, moon and planets to how time and space collide in the realm of stars, galaxies and black holes. You will also build a miniature rocket to explore the skies!

Session 2: July 8-11

Intro to Digital Art
If you love doodling, creating new art, or even making music this class is for you! During the session, you will learn how to bring those sketches and beats to life using the Adobe studio and SoundTrap.

Mad About Chem
Do you like mixing things to see what happens? Do you want to create new materials using a scientific approach? In Mad About Chem, you will explore hands-on chemical reactions and investigate the wonderful world of chemistry!

Programming with Scratch 3
Scratch 3 is a simple-to-use block-based programming software. In this course, you will learn basic computer programming concepts such as algorithms and conditions to complete computer programming challenges using Scratch 3.

Rocketry and Flight
Blast off into the world of an aerospace engineer. In this class, you will explore the forces of flight as you build and test your wings to see if they achieve lift and assemble devices to discover different forms of lift and thrust. By the end of this class, you will master Newton's laws of motion by designing and building your very own parachute, helicopter and rocket.

Introduction to Game Design
Have you ever wondered how a video game is created? In this introduction class, you will learn how to create your own video game through learning the Clickteam Fusion Developer 2.5 software. After four fun days of designing games, you will have a game with characters, objects, music and much more to share with your friends and family.

Session 3: July 15 – 18

Design Thinking
Are you a problem-solver or an inventor? Do you enjoy making things and helping others? The Design Process is what turns ideas into creations. In this class, you will use design thinking to unlock your creativity. You will imagine, plan, build and test solutions to solve real-life problems.

Green Thumbs Up: Journey into the World of Flowers and Trees
Do you ever wonder what plants are unique to the rain and coniferous forests, under the sea, or in the hot desert? Would you like to study and compare the different plant groups and their unique parts? In this session, you'll use dissecting tools and a hand lens to explore the structures of various plants while gaining and understanding of how they adapt to survive while living with other plants and animals in each ecosystem.

Intro to Robotics
This robotics class is ideal for beginners. You will build and program robotics using LEGO Education SPIKE Prime Set. Working in pairs, you will learn about gears, motors and sensors, as well as the basics of building, programming and mechanical design.

Par-Tee Time: Golf Fundamentals
This class is designed for aspiring golfers. In a boot camp style, students will learn the proper stance, grip and swing techniques. The class will also cover the rules and etiquette of golf. Students will learn how to navigate the golf course and play with proper etiquette.

Session 4: July 22 – 25

Intro to Digital Art
Do you love doodling, creating new art, or even making music? If the answer is yes, then this class is for you! Here, you will learn how to bring those sketches and beats to life using Adobe Studio and SoundTrap.

Mad About Chem
Are you a mad scientist? Do you like mixing things to see what happens? Do you want to create new materials using a scientific approach? In Mad About Chem, you will explore hands-on chemical reactions and investigate the wonderful world of chemistry!

Physics of Rollercoasters
How do we design a rollercoaster that is both fast and fun? Discover the science and engineering related to rollercoasters by building a rollercoaster model using K'Nex pieces. Then use the rollercoaster to learn about the motion, forces and energy involved in these thrilling rides!

STEM Challenges
Do you enjoy building with materials lying around the house? Bring your problem-solving skills to reimagine the way upcycled materials can be used. Students will be challenged to design and prototype a robot that will meet the needs of its user, a vehicle suitable for diverse terrains, a roller coaster, and a pulley system capable of lifting real-world objects.

Introduction to Game Design
Have you ever wondered how a video game is created? In this introduction class, you will learn how to create your own video game through learning the Clickteam Fusion Developer 2.5 software. After four fun days of designing games, you will have a game with characters, objects, music and much more to share with your friends and family.

Session 5: July 29 – August 1

<u>Animal Kingdom</u>
Do you ever wonder how animals can live together in the rainforest, under the sea or in the hot desert? Would you like to study and compare the different animal groups? Grab a scalpel and hand lens to explore the anatomy of various animals while understanding how they adapt to survive while living with other animals in each ecosystem.

<u>Design Thinking</u>
Are you a problem-solver or an inventor? Do you enjoy making things and helping others? The Design Process is what turns ideas into creations. In this class, you will use design thinking to unlock your creativity. You will imagine, plan, build and test solutions to solve real-life problems.

<u>Healthy Habits</u>
Each day is dedicated to exploring nutrition, exercise, stress management, and mindfulness. From decoding nutrition labels to designing fitness challenges and experimenting with healthy recipes, get ready to flex your brain muscles while discovering the science behind living your best life!

<u>Intro to Photography</u>
Learn the basics of digital photography and explore how the science of light and optics, the math of ratios and proportions, technology and engineering all play into how a camera works. You will take photographs every day and produce a small digital portfolio to take home at the end of the week.

<u>Design and Engineering Vehicles</u>
Students will build and design three different vehicles using different sources of power. They will participate in challenges to see which design is the fastest and or goes the furthest.

TGR LEARNING LAB

DAY PROGRAM - SUMMER PROGRAM REGISTRATION FORM

Summer Application Deadline: Friday, May 31
Grades 5 – 6

Check one: ☐ TGRLL Member ($30 per class)   ☐ Non-Member ($40 per class)

Please insert the classes and sessions you wish to attend.

Session Number	Class Title (first choice)	Class Title (second choice)	Fee
		Total	

Student Information (Please print clearly.)

First Name_____ Middle Initial_____ Last Name_____

Student's Home Address_____ Apt. #_____ City_____ Zip_____

Home Phone_____ Cell Phone_____ E-mail_____

School_____ Grade in Fall 2024: ☐ 5th ☐ 6th

Birthdate_____ Gender: ☐ Male ☐ Female ☐ Non-binary

Ethnicity: (check one)

☐ American Indian/Alaskan Native ☐ Cambodian ☐ Hawaiian ☐ Laotian ☐ Tahitian
☐ American Indian/White ☐ Chinese ☐ Hispanic/Latino ☐ Other Asian ☐ Vietnamese
☐ Asian Indian ☐ Filipino ☐ Japanese ☐ Other Pacific Islander ☐ Korean ☐ Samoan
☐ White/Non-Hispanic ☐ Black/African American ☐ Guamanian ☐ Other, Not Specified

Parent/Legal Guardian Information

Parent/Legal Guardian's First/Middle/Last Name_____

Relationship to the child_____ Home Language_____

Address (if different)_____ Apt. #_____ City_____ Zip_____

Home Phone _____ Cell Phone_____

Work Phone_____ Work Email_____

Health History

List any illness or medical condition staff should be aware of: _____

List any medications the child is currently taking: _____

List any allergies (including food) staff should be aware of: _____

Method of Payment (check one)

☐ Cash ☐ Card

Staff Use

	Date	Staff
Application		
Grade Verification		
Payment		
Acceptance Letter		