TGR LEARNING LAB

2024 SUMMER EXPANDED LEARNING PROGRAM APPLICATION

Rising 7th -12th 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 Program: The TGR Learning Lab is offering summer classes for students who are interested in hands-on, interactive, career-focused experiences. Classes are open to students who will be entering the 7th-12th grade in the fall of 2024.

Timeframe: Classes are held Monday – Thursday from 1 – 4 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 TGR Learning Lab 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 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:
- o   Step 1: Select classes.
- o   Step 2: Complete the registration form.
- o   Step 3: Submit the application, grade verification and payment by mail or drop it off at the TGR Learning Lab.

Grade Verification: A copy of the 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.

TGR Learning Lab
One Tiger Woods Way
Anaheim, CA 92801

Phone: (714) 765-8040 | Fax: (714) 765-8059 |TGRFoundation.org

Session 1: June 24-27

Comparative Zoology
Through a series of investigative animal dissections, this class will provide a hands-on look at animal anatomy and how anatomical adaptations are used to help them survive in the wild. By the end of the class, you will understand how a zoologist studies and compares animals to understand their complex body systems.

Digital Arts
Do you enjoy sketching, graphic design, designing clothes, or even making music? If the answer is yes, then this class is for you! In this session, you will learn how to bring those sketches and beats to life using the Adobe studio and SoundTrap.

Renewable Energy Systems
Join this session to learn about electricity and how it's generated. You will design a windmill to generate power, assemble a solar panel and use your knowledge to power a fuel cell vehicle and race against the class!

Game Design
Have you ever played a video game and wondered, "How did this game start out from a few lines of code?" By the end of the session, you will understand the basic components behind video game creation which include programming basic interactions between the player and the game, as well as the philosophy behind video game design.

UAV Drone Pilot
Working within drone regulations, students participating in this introductory course will learn how to assemble and fly drones safely indoors. Students will work in a team to participate in challenges and tasks to implement their flight skills, demonstrate connections to science principles and collaborate with their peers.

Session 2: July 8-11

Forensic Biotechnology
If you enjoy mysteries and solving crimes, this is a great opportunity to get experience as a forensic biotechnologist. During the session, you will investigate a crime scene and analyze evidence including mystery hair, blood typing and DNA fingerprinting. You will also develop foundational biotechnology skills, including micro-pipetting and gel electrophoresis. Dust off your detective skills and prepare to take on the challenge of solving a unique crime!

Photography
Join us to learn about the different parts of a camera and the basics of photography to help you take quality photos. During the session, you'll, participate in various photo challenges to practice what you learn and exercise your creativity. You'll also create your portfolio to take home with you at the end of the session. A digital camera and tripod will be provided for use during the class.

STEM Challenges
Join us for an engaging four days of STEM Challenges, where creativity meets engineering. Students will dive into the world of sustainable engineering as they participate in challenges to hone their problem-solving skills to reimagine the way upcycled materials can be used. Students will be tasked with designing and prototyping 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.

<u>Into the Swing of Things: Building a Repeatable Golf Swing</u>
This class is designed for aspiring golfers or those who want to improve their foundational skills. This session will cover the basics of putting, chipping and swing mechanics. Students will also learn about the different types of clubs and when to use them. Students will gain an understanding of the fundamentals of golf and how to apply them to their game.

Session 3: July 15 – 18

<u>Make-or-Break Structural Engineering</u>
Designing roads and building bridges is an everyday task for civil engineers, and in this class, you will test their roles. You will learn critical construction skills and fundamental engineering concepts to create a class project. At the end of the session, you will test your project's integrity and put it through the ultimate stress test!

<u>Coding with JavaScript</u>
JavaScript is a programming language used to create interactive web pages. In this course, students will learn how to properly write JavaScript and apply their knowledge to create a simple app.

<u>Financial Literacy</u>
From budgeting and saving money to managing debt, join us for a crash course in financial literacy and fiscal responsibility. Through hands-on activities, you will learn relevant skills, including managing a salary, buying a car and avoiding debt. By the end of this session, you will understand how to make financially smart decisions for your personal, academic and professional endeavors, from college expenses to important purchases.

<u>How to Read Minds</u>
In this course, you will learn fundamental topics in psychology that work together to help you understand how your brain works, as well as your relationships with others. We will explore the biology of the brain, the psychology of the senses, learned behaviors and social psychology.

<u>Human Body Lab: Exploring Biomedical Careers</u>
Are you interested in applying your passion for science to improve people's health and well-being? From participating in animal dissections to designing prototypes for biomedical challenges, we will explore the anatomy of the human body, the cause and spread of diseases and the variety of careers in health care. You will walk away with a better understanding of how you can help yourself and others live a healthy life.

Session 4: July 22 – 25

<u>Game Design</u>
Have you ever played a video game and wondered, "How did this game start out from a few lines of code?" By the end of the class, you will understand the basic components behind video game creation which include programming basic interactions between the player and the game, as well as the philosophy behind video game design.

<u>Intro to 3D Modeling with Blender</u>
Blender is a free open-source 3D modeling software that is used for animation, game character design and product prototyping. In this course, students will be introduced to basic Blender functions such as manipulating objects in 3D space, editing meshes to create 3D objects and refining projects with the sculpt tool. At the end of the course, students will take home a portfolio of 3D art.

Into the Swing of Things: Building a Repeatable Golf Swing
This class is designed for those who are new to the game of golf or those who are looking to improve their foundational skills. This class will cover the basics of putting, chipping and swing mechanics. Students will also learn about the different types of clubs and when to use them. Students will gain an understanding of the fundamentals of golf and how to apply them to their game.

Photography
Join us to learn about the different parts of a camera and the basics of photography to help you take quality photos. During the session, you'll participate in various photo challenges to practice what you learn and exercise your creativity. You'll also create your portfolio to take home with you at the end of the session. A digital camera and tripod will be provided for use during the class.

Robotics
This fun and exciting class is ideal for beginners. You will build and program robots using a variety of LEGO Education SPIKE Prime sets. Using LEGO brick, gears, motors and sensors, you will learn the basics of building and programming as well as mechanical design, construction, programming and teamwork skills while sharing a robotics kit and computer.

Session 5: July 29- August 1

Coding with JavaScript
JavaScript is a programming language used to create interactive web pages. In this course, students will learn how to properly write JavaScript and apply their knowledge into creating a simple app.

Comparative Zoology
Through a series of investigative animal dissections, this class will provide a hands-on look at animal anatomy and how anatomical adaptations are used to help them survive in the wild. By the end of the class, you will understand how a zoologist studies and compares animals to understand their complex body systems.

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EXPANDED LEARNING PROGRAM - SUMMER PROGRAM REGISTRATION FORM

Summer Application Deadline: Friday, May 31
Grades 7 – 12

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: ☐7th ☐8th ☐9th ☐10th ☐11th ☐12th
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)   **Staff Use**
☐ Cash   ☐ Card

	Date	Staff
Application		
Grade Verification		
Payment		
Acceptance Letter		