

## TGR LEARNING LAB 2021 WINTER VIRTUAL CLASSES

January 19 - February 25  
Registration Deadline: **January 8, 2021**

At the TGR Learning Lab, we are focused on opening your mind to potential careers and college majors available to you. Instructors at the TGR Learning Lab, Anaheim site will be offering FREE virtual after-school classes for students in the west coast time zone. These classes will be offered to students in grades 6-12. We ask that by registering, you understand this is either a one-week (four day) or six-week (two days per week) commitment to yourself and your future. Your next step is to select the course(s) which are located on pages 2, 3 and 4 you would like to participate in and register using the Eventbrite links listed under each program.

We will be offering two different types of after-school programs. We will be offering one-week (four days) workshops that will focus on design challenges and require students to have the listed materials at home. These workshops will be Monday-Thursday from 3:30 pm – 4:30 pm PST. We will also be offering six-week long classes on either Monday/Wednesday or Tuesday/Thursday. These classes will be offered 3:30 pm – 4:30 pm PST. Please note this time reflects west coast time zone. Students can only participate in either the one-week or six-week long programs.

Virtual Academic Support will continue to be available for TGR Learning Lab members who need assistance with their schoolwork. If you are interested in this opportunity, you must register to participate.

### **Technology Requirements:**

To participate in virtual Winter classes, each registered student will need a computer or device with internet connection. The Zoom video conferencing platform will be used to conduct the class, so this software needs to be downloaded prior to the class. It is also highly recommended that students have a webcam and microphone so that s/he can be active participants in the class. Some classes may require a tablet/cell phone to participate in certain activities.

Once a student has registered, a separate email will be sent with safety and security guidelines to review as well as Zoom access information a week before the class begins.

If you have any questions or concerns, please email Gyla Bell at [gbell@tgrfoundation.org](mailto:gbell@tgrfoundation.org).

We hope to see you virtually this winter!

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### Winter 2021 Program Calendar

| Term                | Registration Deadline | Program Start Date | Program End Date  |
|---------------------|-----------------------|--------------------|-------------------|
| Winter Session 2021 | January 8, 2021       | January 19, 2021   | February 25, 2021 |

\*No class the following days:

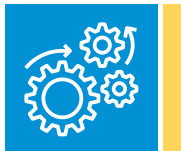
- Monday, January 18, 2021 (Martin Luther King Jr. Day)
- Monday, February 8, 2021 (Lincoln's Birthday Observance)
- Monday, February 15, 2021 (President's Day)



## TGR LEARNING LAB 2021 WINTER VIRTUAL WORKSHOPS

### One Week (3/4-Day) Design Workshops – 3:30 pm – 4:30 pm PST

Registration Link: <https://tgrllwinter2locworkshops.eventbrite.com>

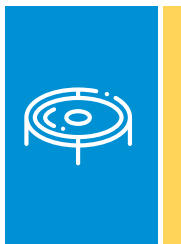


#### Build that Machine!

January 19-21, 2021 (Tuesday-Thursday)

This week's project will focus on a simple machine design.

- Supplies needed: 1-2 plastic spoons, 5-10 rubber bands, cardboard tubes (toilet paper/paper towel), cup with beads

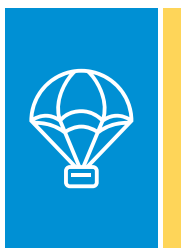


#### Solution Designs

January 25-28, 2021

This week's projects will focus on designing solutions for real-world situations that will have you building a trampoline and a basketball shooter.

- Supplies needed: 1 ping pong ball, 2-3 plastic straws, 5 pipe cleaners, 5 popsicle/craft sticks, index cards, tape, 1 small paper/plastic cup, 1 colander, 20 rubber bands, 20 toothpicks, 6 binder clips, 1 piece of cloth the size of the opening of the colander, 1 golf ball

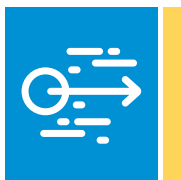


#### Make it Move!

February 9-11, 2021 (Tuesday-Thursday)

This week's projects will focus on aerodynamics and flight that will have you building a parachute and a device that will go the distance.

- Supplies needed: 1 sheet of newspaper, 1 pair of scissors, tape, 1 24-inch-long piece of string, weights (pennies), 3 craft sticks, 1 sheet of paper, 5 paper clips, 1 binder clip, 1 paper cup, 1 sheet of circle labels, 1 12-inch-long piece of string, 3 marshmallows

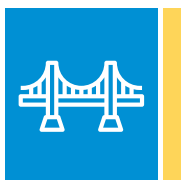


#### Aerodynamics to the Rescue

February 1-4, 2021

This week's projects will focus on designs that require movement of a can as well as cotton balls.

- Supplies needed: Cotton balls, 6 mailing labels, 3 two-foot-long pieces of string, 2 spaghetti noodles, 1 rubber band, 1 tennis ball (this cannot be altered)



#### Let's Build It!

February 16-18, 2021 (Tuesday-Thursday)

This week's projects will focus on construction designs that will have you building a bridge and the tallest tower.

- Supplies needed: 1 sheet of newspaper, 12 inches of tape, 20 plastic straws, 1 small sheet of paper/foil, tape, scissors, ruler, pennies

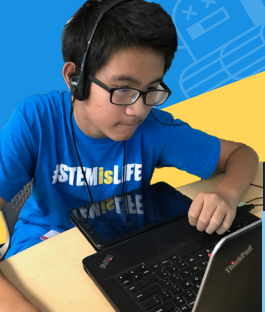


#### Solution Designs

February 22-25, 2021

This week's projects will focus on designing solutions for real-world situations that will have you building a trampoline and a basketball shooter.

- Supplies needed: 1 ping pong ball, 2-3 plastic straws, 5 pipe cleaners, 5 popsicle/craft sticks, index cards, tape, 1 small paper/plastic cup, 1 colander, 20 rubber bands, 20 toothpicks, 6 binder clips, 1 piece of cloth the size of the opening of the colander, 1 golf ball



## TGR LEARNING LAB 2021 WINTER VIRTUAL CLASSES

**Six-Week Classes (Monday/Wednesday or Tuesday/Thursday)**

Registration Link: <https://tgrllwinter21occlasses.eventbrite.com>

### Monday/Wednesday Classes – 3:30 pm – 4:30 pm PST



#### Graphic Design

A space for teens to explore the wonderful combination of technology and art. Graphic Design is all around us, both on screen and in print. In this course, students will discover how to apply various design principals in their own art and gain the tools to uncover new skills. We'll explore many of the wonderful online resources that exist for growing designers. So, grab your laptop and come learn something new!

#### Additional Technology Requirements:

1. Laptop/computer with internet access (webcam and microphone highly suggested)
2. This class won't be using graphic design programs that require large downloads, we will only be exploring free, web-based resources.
3. Account creation may be necessary if students would want to save their work virtually.



#### Sports Science

Ever wonder how pitchers make a baseball spin? Or what makes a soccer ball curve? How about why your body gets sore? There's science behind all of it! Join our class and learn all about the science behind the most popular sports and the athletes that play them!

#### Additional Technology Requirements:

- Laptop/computer with internet access (webcam and microphone highly suggested)



#### What's "App"ening in Computer Science

Computer science knowledge is a high-demand skill in today's job market. In this course, you will learn fundamental computer science concepts through engaging hands-on activities while building relationships with instructors and classmates. You will apply what you learn by programming an app using the AppLab on Code.org to share with family and friends.

#### Technology Requirements:

- Laptop/computer with internet access (webcam and microphone highly suggested)



#### Golfology

Learn up-to-date golf fundamentals that can be applied to your game. Explore practice methods, basic ball flight laws and on-course strategies and techniques. This class can prepare you for high-level performance either for recreational or competitive play.

#### Technology Requirements:

- Laptop/computer with internet access (webcam and microphone highly suggested)



## TGR LEARNING LAB 2021 WINTER VIRTUAL CLASSES

### Tuesday/Thursday Classes – 3:30 pm – 4:30 pm PST



#### **Human Body Lab: Exploring Biomedical Careers**

Are you interested in applying your passion for science to improve people's health and well-being? From participating in live-streamed dissections to designing prototypes of protective eyewear and face masks, 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.

#### **Additional Technology Requirements:**

- Laptop/computer with internet access (webcam and microphone highly suggested)



#### **Intermediate Web Design: Putting More Flash on Your Site**

This class is for students who have completed "Intro to Web Design" or have some experience with HTML and CSS. In this course, students will have the opportunity to continue working on their website or start a whole different one, while learning new tags and tools to create a more interactive and flashier website.

#### **Additional Technology Requirements:**

- Laptop/computer with internet access (webcam and microphone highly suggested)
- A mobile device



#### **Complete Golf Game Improvement**

The Complete Golf Game Improvement virtual class will prepare you for high level golf whether for competitive or recreational play. Discover contemporary bio-mechanic golf fundamentals, explore practice drills, strategies and techniques used by today's top golfers and develop a practice regimen for a pathway to competitive golf.

#### **Technology Requirements:**

- Laptop/computer with internet access (webcam and microphone highly suggested)



#### **Virtual Academic Support**

Registration Link: <https://tgrllacademicsupport.eventbrite.com>

#### **Virtual Academic Support**

Virtual Academic support will be available for students in grades 6-12 who need assistance with their academic school-work. Students will need to register for this opportunity but can drop in during the times when virtual academic support is being offered.

Drop-in Schedule:

Mondays from 2:30 pm-4:30 pm PST

Wednesday, Tuesdays and Thursdays from 10:00 am-12:00 pm PST and 1:00 pm-4:30 pm PST