Gyla Bell
Senior Director
Programs

TGR FOUNDATION
A TIGER WOODS CHARITY

For over 24 years, TGR Foundation has been redefining what it means to be a champion.

VISION

A world where opportunity is universal and potential is limitless.

MISSION

Empowering students to pursue their passions through education.

TGR Foundation Programs

STEM Enrichment Programming
The TGR Learning Labs allow students to discover **personal interests**, develop **self-confidence** and strengthen **academic skills**.

Scholarship Program
In 2006, the Earl Woods Scholar Program was created to provide **high-potential, low-income** students with the resources to get into and through college.

Educator Professional Learning
TGR EDU: Create is a teacher training program incorporating **interdisciplinary approaches with inquiry-based, student-centered content** focused on STEM, college access and career connections.

Global Professional Learning
TGR EDU: Global engages a network of **educators and business leaders around the world** to pursue excellence in STEM education, social entrepreneurship and workforce readiness.

TGR EDU: EXPLORE

Free Online Education for Students, Educators and Families

Launched in partnership with **Discovery Education** in 2017, TGR EDU: Explore is a digital version of our TGR Learning Lab, offering access to STEM curricula and college-access programming.

Available at no cost, the platform offers interactive lessons and video trainings in:
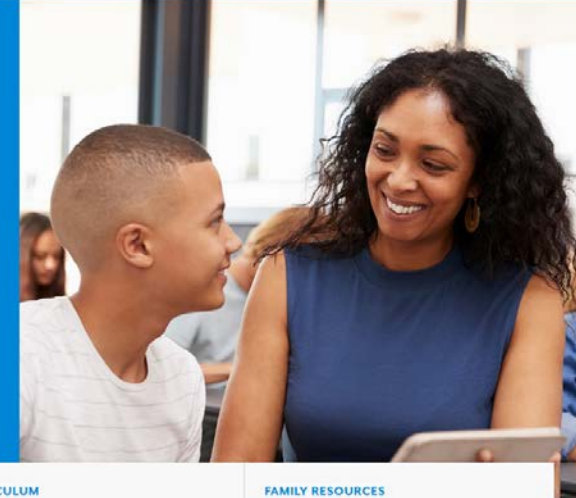
- **STEM subjects**, from robotics and biotechnology to city planning, biomimicry and more

- **College application** process

- **Financial aid** process

Digital Explorations in STEM

Following Nature's Lead
(20 minutes / grades 6-8)

Students will learn about the important concept of biomimicry—when physicists, chemists and biologists use their knowledge of organisms' structures and functions to build the foundation of innovation. Along the way, they will match animal habitats and animals to human inventions and designs, learning which human innovations have been inspired by termite mounds, dolphins, pigeons and more.

Robots to the Rescue
(20 minutes / grades 6-8)

Through a guided interactive experience, students will examine how robotic technologies help respond to natural hazards by aiding in a rescue and reconnaissance mission. Along the way they will be challenged to use block coding to program a rescue robot to aid in a rescue and reconnaissance mission.

Following Nature's Lead

Explore Biomimicry and Innovation through Squid Dissection

DIGITAL EXPLORATION | 20 MIN.   6-8

Following Nature's Lead

In this Digital Exploration, students will learn that scientists and engineers frequently use nature to inspire their research, designs and products. Students will...

STEM | SCIENCE (LIFE) | TECHNOLOGY

Explore ▸

Digital Explorations in STEM

To Our Solar System and Back
(30 minutes / grades 6-12)

Students will act as **planetary scientists** who have been tasked with conducting a sample return mission. They will investigate the future of **reusable launch systems** and the STEM behind both a successful launch and landing to obtain and return their sample. Finally, students will examine the diverse range of **careers** in the aerospace industry.

Tracing Life's Roots
(30 minutes / grades 6-12)

Students will act as **zoologists** to investigate **common ancestry**. They will obtain information about four different species to determine which two animal species are the most closely related. Along the way, students will compare **embryotic** development stages, **anatomical** evidence and **genetic** evidence to support their conclusion.

TRACING **LIFE'S ROOTS**

An investigation into **ANIMAL ANCESTRY**

Duck

6-12

DIGITAL EXPLORATION | 25-30 MIN.

Tracing Life's Roots

In this Digital Exploration, students will act as zoologists to investigate common ancestry. They will obtain information about four different species to determine...

STEM | SCIENCE (LIFE) | TECHNOLOGY

Explore ▸

Educator Professional Development

(Re)Defining STEM
(40 minutes / grades 3-12)

In this learning module, called (Re)Defining STEM, learn how to view STEM education with an updated lens, understand the principles for effective STEM teaching and learning, and come away with concrete strategies and activities that can transform student learning no matter the discipline.

Interdisciplinary Learning: Making Connections
Coming Soon!

The next learning module will focus on interdisciplinary learning and how to effectively implement interdisciplinary teaching into your practice. Throughout the module, you will learn what interdisciplinary learning is, how it benefits students and sets them up for success in the global workforce, and tools, strategies, and resources to begin implementation right away!

LEARNING MODULE | 30-45 MIN.

(Re)Defining STEM

The STEM education movement has been around for decades, yet the needle has been slow to move, especially for students from underrepresented communities...

STEM | COLLEGE AND CAREER RESOURCES | ENGLISH
LANGUAGE ARTS

Explore ▸

Lessons and Activities - STEM

Over 15 STEM lessons and activities available

Beating Mosquitoes at Their Own Game (9-12)

In this lesson, students will investigate how humans, through **biotechnology**, can influence the characteristics of organisms in order to ultimately take a stance on the best way to combat an **outbreak** of Zika-infected mosquitos in their community.

City Planning for Biodiversity and Our Future (6-12)

Students will define **biodiversity** and brainstorm how cities can have an impact on the biodiversity in a particular area. They will then calculate a biodiversity index and discover why a high biodiversity index is important for an **ecosystem**. Finally, they will take on the role of **city planners** to create and present a unique model that incorporates biodiversity.

LESSON | 180-200 MIN.   9-12

Beating Mosquitoes At Their Own Game

In this lesson, students will investigate how humans, through biotechnology, can influence the characteristics of organisms in order to ultimately take a stance on the best...

SCIENCE (LIFE) | STEM | TECHNOLOGY | ENGLISH
LANGUAGE ARTS

Explore ▶

Lessons and Activities - STEM

Geometric Building Design (6-8)

In this lesson, students will study how 2-D shapes convert to 3-D shapes and how that impacts surface area and volume. In doing so, they will design and engineer a building that meets certain design requirements, creating a presentation to deliver to a mock City Council to approve their building design.

Magnetic Migration (6-8)

Students will work together to investigate the claim that animals use Earth's magnetic field to navigate. First, students will rotate through stations that build their understanding of magnetic forces and properties. Next, they will apply this new understanding as they explore Earth's magnetic field by building a compass and considering how magnetic fields extend through space. Students will then divide into research teams and focus on if/how magnetism affects the migration of birds, sea turtles and sharks.

LESSON | 130-180 MIN.

6-8

Geometric Building Design

In this lesson, students will use Google Maps to visualize the relationship between two-dimensional and three-dimensional shapes. They will further investigate how 2-D shapes...

ENGINEERING | MATHEMATICS | STEM | TECHNOLOGY

Explore ▸

Lessons and Activities – YD & SEL

Rethinking Failure

Through quotes, anecdotes and dialogue this Digital Lesson Bundle challenges students to rethink their attitudes toward and assumptions about failure. Students will examine the **meaning of failure**, explore why failure is an **important part of the learning process**, and discover how to develop a **growth mindset** to turn failure into a catalyst for future success.

Career Path

Your students will visualize, organize and illustrate their **future pathways** and translate this information into **goals** for themselves, with written **action plans** for achievement.

Find Your Passion

In this activity, students will identify the things they love doing and brainstorm their "wildest dreams" for the future in order to **discover their passion(s)** and set themselves on a path to achieve their goals. They will create **mind maps** to help them visualize, organize and illustrate their **future pathways**.

LESSON | 180 MIN.   6-12

Rethinking Failure

Failure can be a painful experience, particularly for teens, who are forming their sense of selves, exploring their own budding potential and developing critical interpersonal...

SOCIAL EMOTIONAL LEARNING | ENGLISH LANGUAGE
ARTS | COLLEGE AND CAREER RESOURCES

Explore ▸

Virtual Field Trip

Career Connections: Transforming Passion into Purpose

24 minutes / grades 6-12

Take a virtual field trip with TGR Foundation and Discovery Education to the **Facebook** headquarters in Menlo Park, Calif. as we showcase some of the **innovative** careers that fuel this Silicon Valley powerhouse. Facebook builds products to make the world more open and connected and this means drawing from a team that understands and reflects a broad range of experience, thought, geography, age and background. Hear from experts in software and infrastructure engineering, product design and data security to learn how hands-on work in the classroom can lead to **engaging careers** that create positive change.

STEM Family Design Challenges

- 20 different STEM design challenges, available in both **English** and **Spanish**

- Each challenge requires materials commonly found around the home

- Challenges emphasize **inquiry** and **creativity**

- **Appropriate for all ages!**

Invent a Vehicle
Develop a new vehicle for transporting hazardous waste.

⬇ Invent a Vehicle Design Challenge
⬇ Spanish Language Version

Build an Alphabet Block
Create a cube/block with letters of the alphabet.

⬇ Build an Alphabet Block Design Challenge
⬇ Spanish Language Version

Additional Resources for Students

STEM Unplugged Series

A series of videos for students and families to conduct **engaging STEM activities** at home, with materials typically found around the house.

Fitness @ Home Series

A series of videos to help students remain active during this time of distance learning. Each video will demonstrate a handful of fitness exercises to **activate body and mind**.

College Tidbit Series

A new series of videos for students starting the planning process for college. Topics include: freshman year college tips; exploring volunteer opportunities.

Available at TGRFoundation.org

Additional Resources for Educators

Training Videos

Short training videos demonstrating **tools**, **resources**, and **strategies** to support your practice and keep students engaged during **distance learning**.

Digital Workshops

Monthly live **digital workshops** (webinars) for educators. Each interactive workshop is a collaborative space to **learn**, share **best practices**, and come away with **strategies** to improve teaching and learning.

Join our Educator Community at TGRFoundation.org

Professional Learning for Educators

TGR FOUNDATION
A TIGER WOODS CHARITY

Share Resources

Get Involved

TGREDUExplore.org

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