



FIELD TRIP GUIDE



2023



STEAM EDUCATION FOR THE
21st CENTURY

EDUCATOR GUIDE



About Challenge Island

#1
in STEAM
Education!



What is Challenge Island?

It's where engineering meets imagination!
It's a one-of-a-kind program on
the cutting edge of S.T.E.A.M Education.

21st CENTURY SKILLS

We foster the fundamental skills kids need
to thrive today & tomorrow including
creativity, collaboration, communication,
flexibility and leadership.

SOCIAL EMOTIONAL LEARNING

We encourage the
social & emotional
intelligence
children
need to form healthy
relationships & make
positive choices.

Why?

PROJECT BASED LEARNING

Kids engage in
inquiry-based,
collaborative,
student driven
learning grounded in
real world connections while
problem solving.

HIGHER LEVEL THINKING SKILLS

Our field trips promote deep, analytical & critical
thinking abilities in kids which help ensure their long-
term academic and professional success.

How?

Educators choose a cross-curricular theme based
challenge for their students. Students will
experience an unforgettable adventure
while having STEAM-tastic fun!

Challenge Island supports whole brain development with their STEAM programs while enriching kids with an "I CAN" attitude.



I CAN generate & compare multiple possible solutions to a problem



I CAN plan & carry out fair tests to identify how a model can be improved.



I CAN design a solution to a complex real-world problem through engineering.



I CAN analyze data from tests among several design solutions & combine them into a new solution.



I CAN plan a solution to a problem by drawing & creating a model.



Field Trip Offerings

Challenge Island Lab (Come to us)



One Challenge

Up to 40 students: \$10 each

41 – 100 students: \$9 each

Duration: 1.5 hours

Activity: Choice of 1
STEAMtastic challenge

Two Challenges

Up to 40 students: \$15 each

41 – 100 students: \$13.50 ea

Duration: 2.5 hours

Activity: Choice of 2
STEAMtastic challenges

WHERE?



OUTREACH at your CAMPUS



Large Group

All students together engaging
in field trip at same time.

(minimum of 40 students for large group)

40 – 100 students: \$7 each

101 + students: \$6 each

Duration: 1 hour

Activity: Choice of 1
STEAMtastic challenge

Individual Classes

Each class gets own field trip, with
dedicated challenge island teacher

Cost: \$12/student

Duration: 1 hour

Activity: Choice of 1
STEAMtastic challenge



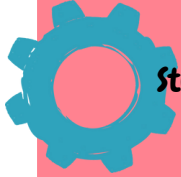


DESCRIPTION OF ACTIVITIES

(Kindergarten - First grade)



— Best for large groups

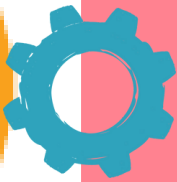


ZIPLINE ZONE

Students will design, build & test a zip line that transports a self-made device all while exploring Newton's Laws. Will distance, height & weight make a difference? Budding engineers want to know!

CITY & NEIGHBORHOOD PLANNERS

Students will take on the role of a city planner to design and build a 3D neighborhood. Future engineers will learn about geographical map skills, architecture and the power of magnets as they build infrastructure.



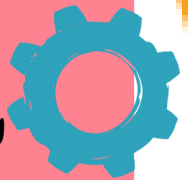
BEACH COASTERS

Students will design an entire amusement park ride using railway paper "tracks". How will the power of potential and kinetic energy, gravity and momentum impact their ride? It will be a thrill to find out!



ROCKIN' ROLLER COASTERS

Students will let their marbles fly in this amazing engineering challenge. Space will be needed as students construct hills, curves and loops while exploring physics & velocity. Where will the marble travel? The possibilities are endless!



MONKEY PLAYGROUNDS

Students will build model playgrounds using simple machines such as levers and inclined planes. There's much excitement and creativity in this challenge as students innovate, invent, experiment and collaborate!

BLOWCART FUN

Students will design & build a blow cart that can go the distance while studying wind power energy. Will sail size and shape and wheel placement make a difference? Students will get blown away finding out!





Descriptions of Activities

(Second - Sixth grade)



— Best for large groups



STAR MOUNTAIN

Students will simulate the pull of gravity as they create swirling wormholes, drops, tunnels and chutes! What will their enclosed indoor ride look like? Where will the marble end up? Future engineers will want to know!



ROCKIN' ROLLER COASTERS

Students will let their marbles fly in this amazing engineering challenge. Space will be needed as students construct hills, curves and loops while exploring physics & velocity. Where will the marble travel? The possibilities are endless!



VOLCANOES, ERUPTIONS & DISASTER

Students will design and build houses that can survive lava damage by implementing sloping roofs & stilts. Then, students will construct an eruptive volcano. Will the "lava" destroy what they built? It's going to be explosively fun to find out!

BLOW CART FUN

Students will design & build a blow cart that can go the distance while studying wind power energy. Will sail size and shape and wheel placement make a difference? Students will get blown away finding out!



SUSPENSION BRIDGES

Students will take on structural and civil engineering as they design a model suspension bridge. Can the bridge sustain a possible earthquake? How much weight can it support? How long will it span? This challenge is sure to be a long stretch of enjoyment!

TREEHOUSES

Students will build model treehouses using simple machines such as levers & inclined planes. There's much excitement and creativity in this challenge as students innovate, invent, experiment and collaborate!





Descriptions of Activities

(Second - Sixth grade)

— 4th gr & up



MARCH ON WASHINGTON

Students will recreate a model of the famous “March” on Washington while learning about civil liberties, freedom and economic justice as they explore map skills. This challenge is the best of architecture, engineering, creativity and history!



INDUSTRIAL REVOLUTION - SORTING MACHINES

Students will design and build a sorting conveyor belt (without electrical power) while studying the Industrial Revolution. How will oranges be sorted by size without touching them? That’s what budding mechanical engineers will solve in this challenge!



TALL TOWERS

Students will study structural engineering while designing tall towers. What type of foundation and supports will they implement? Will they need cross braces and columns? Future engineers will find out!

PUTT PUTT GOLF

Students will design and build a mini golf course with holes, traps and obstacles. Fun will soar as they implement scientific methods and play at that same time! Who knows, they may get a hole in one!



SLIMETOPIA

Students will ooze with excitement as they experiment with multiple recipes of slime. The chemistry of the different ingredients is sure to be stretchy, squashy and cool! No matter how you squish it, this challenge is colossally fun!



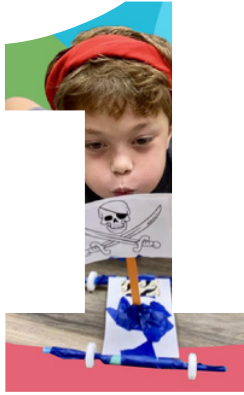
Looking for something different?

Do you have a specific theme you are looking for?
We can also create customized field trip activities to meet your thematic needs. Just ask us!





How to Book



1 Fill out a Field Trip Request Form



2 We will confirm date & send contract. Signed contract means you're on our calendar.



3 Confirmation email sent one week prior to event. Please **CONFIRM** student count one week prior.



4 Payment due on day of event.
(Invoice sent when contract is signed)



Frequently Asked Questions



How do I reserve a date for a field trip? Date may be selected on our Field Trip request form or by email. Based on availability, we will confirm your date by email or phone. Date may be selected on our Field Trip request form or by email.

Is a deposit required for the field trip(s)? No. A signed contract is confirmation of your event with us.

When do I need to provide a final student head count? One week prior to your event, we will ask for a final student head count. This allows us to prepare for the best STEAMtastic event.

When is the balance due? Balance in full may be paid on or before the scheduled event. An invoice will be emailed ???

Is there a late payment fee? Yes. Payments made 15 days AFTER the scheduled event will incur a 10% (of total balance) fee.

Can I get a refund for students who do not attend? No. We provide materials and set up according to the number of students confirmed one week prior to your field trip.

What happens if we are running late? Please let us know as soon as you are aware of any issues the day of your field trip that will cause your group to be late. Depending on our schedule and/or how late your group arrives, programs may need to be modified to fit the allotted timeframe. If we need to increase the scheduled time period due to a late arrival, an additional fee may be charged.

Can we eat lunch at your facility? Yes, you may bring sack lunches and stay for an additional 30 minutes after your program for an additional fee.

Do we need to bring anything? Students may bring their own water bottles. Please note, our facility only has sink water. We do not have a water fountain. Other than water, we will supply everything needed for a STEAMtastic program!

Do you have food for purchase? Yes, advance notice is required. We can offer:
Pizza: Large Cheese Pizza – \$25 each & Large Pepperoni Pizza – \$30 each.
Boxed Lunches: \$10/child (sandwich, chips and drink)
Water Bottles: \$1/child



Are chaperones required? We suggest 1 chaperone for every 10 kids.

What is the maximum number of students you can accommodate at your facility? We can fit approximately 100 – 120 students depending on chosen activity.

Where can we park when we arrive? Buses can drop students off in front of the building. Large buses should park on the Davenport street.





OTHER PROGRAM OFFERINGS:



STEAM EDUCATION FOR THE
21st CENTURY



What People Are Saying?



They have a wide variety of activities that can meet tons of different standards. Highly recommend!
Lead teacher



"Challenge Island curriculum is inspired and allows participants to explore, create and achieve remarkable things!"
Camp Director



"A Challenge Island field trip is like watching budding engineers shine! The program is amazing!"
Teacher



"Challenge Island is on the front lines of STEAM education!"
Teacher



"The children absolutely love Challenge Island! One of them even said 'I'll never forget this!'"
Teacher



"It's a great program! Hands-on, high-interest! A must experience for all kids!"
Parent





CONTACT US



WE HOPE YOU'LL JOIN US
ON OUR NEXT CHALLENGE
ISLAND ADVENTURE!



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<https://challenge-island.com/westplano-northdallas/>



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