



At Home with Destination Science

The fun science experience for curious kids!

TREASURE ISLAND ROBOT CAMP

Days 1 - 5

Hello!

MEET the D.S.TEAM

We hope you enjoy these hands on projects full of fun & learning.

**If you need to catch up, watch the lesson videos

NEED HELP? TEXT

714-510-2572



D.S. LIVE - Online!



What's in this Kit?

- ✓ 5 Days of Science Supplies - M-F
- ✓ Welcome Kit-needed each day @ camp
- ✓ Google Slides - Days 1-5
- ✓ BUILD VIDEOS & INSTRUCTIONS

Videos included so you can finish your BIG BUILD at home if you didn't finish it at camp.

- ✓ KEY WORDS= helps us to learn the science
- ✓ VIDEOS & INSTRUCTIONS w/pictures = helps us to build the main project
- ✓ Google Slides- helpful for review with kids the key words & if you missed a day



SUPPLIES:

LESSON KITS are marked
MONDAY - FRIDAY

WELCOME KIT
NEEDED EACH DAY

EVERY DAY:

***Always have from home:**
Paper, markers, scissors
Tape, glue

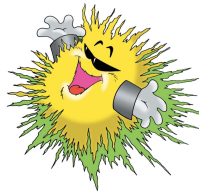


D.S. LIVE DAILY SCHEDULE - Monday-Friday

9:15am	Pre Camp: Gather @Home Supplies & Lesson Kit; Put in tray or shoe box - WAIT for teacher to open any supplies TURN ON COMPUTER - LOG INTO ZOOM - change zoom name to child's name & DO THE COLORING page provided until teacher appears
9:30am	CAMP begins Camper connection / Overview / Supply Check
9:45-10:15	DISCOVER ZONE
10:15-10:30	Wiggle Break
10:30-11:00	BUILD ZONE
11:00-11:10	Daily Challenge
11:10-11:20	Camp Fair - Show & Tell
11:20-11:30	R.A.P. it up! Live session Ends

Engineers at PLAY! Welcome to the start of an amazing week at Treasure Island Robot camp! We will be building a super cool Robot Explorer Ride that can ZIP across the island!





SCIENCE GROUP RULES

FIND A QUIET SPACE

KEEP YOUR SUPPLIES SAFE

***USE MUTE WHEN TEACHER
IS TALKING***

***RAISE YOUR HAND WHEN YOU
HAVE A ?***



***BE A TERRIFIC FRIEND & TAKE
TURNS***



HAVE FUN!



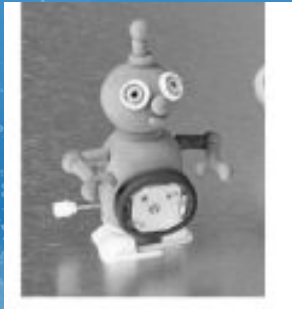
Day 1- FINDING TREASURES

ROBOT OF THE DAY:
SPOT

SUPPLIES

- ✓ MONDAY KIT – Watch Build video or use instruction sheets to build.
- ✓ A tray to hold project pieces

ACTIVITY:
DESIGN YOUR OWN
CLAY ROBOT



KEY WORDS:

- **Compass:** Directional tool works with a magnetized needle, that lines up with Earth's magnetic poles to show directions: North, South, East, and West.
- **Robot:** Machine that imitates a human or animal function.
- **Parts of a robot:** Chassis, motor, power source, tools

ROBOT OF THE DAY: SPOT



Day 2 - What powers your Robo?

ROBOT OF THE DAY:
POCKET BOT

SUPPLIES

- ✓ TUESDAY KIT – Watch Build video or use instruction sheets to build.
- ✓ A tray to hold project pieces

ACTIVITY:

Design a mini flashlight
Using the materials provided

KEY WORDS

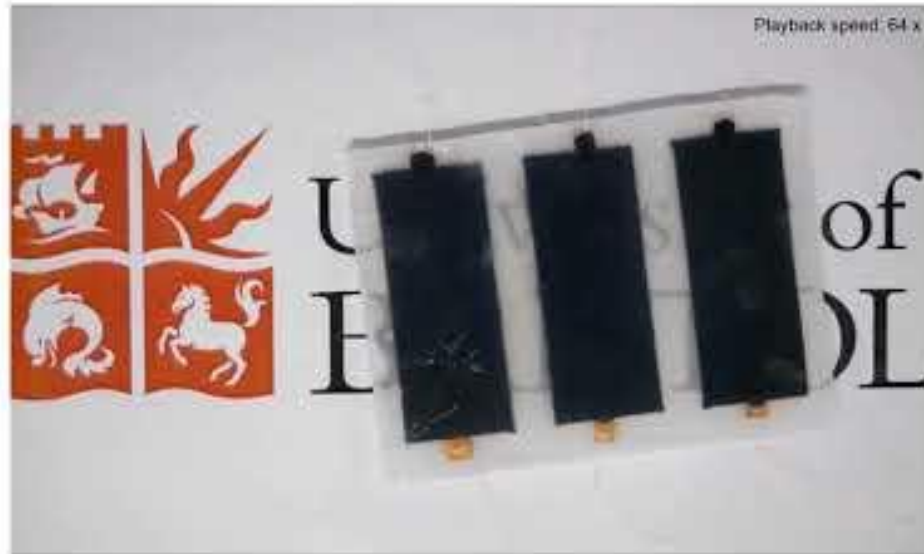
- **Battery:** a device filled with chemicals that create electricity when they combine
- **Electricity:** “energy” created by electrons moving from one place to another
- **Circuit:** the path that electrons move along to power electronic tools

BRAIN BREAK!



ROBOT OF THE DAY: Pocket Bot

The all-soft ElectroSkin robot can crawl on a table



Day 3 - ROBO GEARS

ROBOT OF THE DAY:
HRP-5P

SUPPLIES

- ✓ WEDNESDAY KIT - Watch Build video or use instruction sheets to continue build
- ✓ A tray to hold project pieces

ACTIVITY: Pull back car & ramp

Gears give our car torque - more power.
We can use this power to go up this ramp.

KEY WORDS

- **Simple Machine:** a mechanical device that makes work easier
- **Torque:** When we use gears to slow down the motor and give it more power or torque
- **Gears:** A series of toothed wheels of different sizes, a simple machine that makes work easier

ROBOT OF THE DAY: HRP-5P



Day 4 - FLYING ROBOTS

ROBOT OF THE DAY:
Bionicopter Dragonfly

SUPPLIES

- ✓ THURSDAY KIT - Use the extra build pieces to design tools for your robot; consider form & function
- ✓ A tray to hold project pieces

ACTIVITY: Build & test the Car Catapult Track. Design a target.

KEY WORDS:

- **Form:** The shape of something
- **Function:** What that something does
- **Modify:** To make changes
- **Lever:** a simple machine of a rod that balances upon a point
- **Fulcrum:** the pivot point of the lever
- **Balance:** a state in which opposite forces are equal
- **Center of Gravity:** the point at which the effect of gravity on an object seems to be concentrated
- **Catapult:** a device for launching an object using a lever

ROBOT OF THE DAY: Bionicopter Dragonfly



PIGEON BOT



Day 5 - Robots

Key words:
SoFi (Soft Robotic Fish)

SUPPLIES

- ✓ ROBOT + craft Kit + extra build pieces
- ✓ Customize your robot
- ✓ Design a seat for the rider

ACTIVITY:

Design & test your Buoyancy Boat

KEY WORDS:

- **Density:** Mass per unit volume
- **Buoyant:** Capable of floating
- **Form:** The shape of something
- **Function:** What that something does

What makes
something float
or sink?



FOIL BOAT CHALLENGE: DESIGN YOUR OWN FOIL BOAT



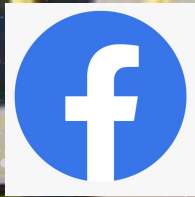
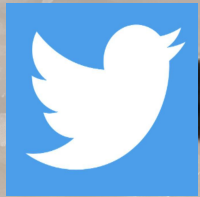
ROBOT OF THE DAY: SoFi

SoFi (Soft
Robotic Fish)



Robot Rally - The Finale

Gather your family. Introduce your robot. What is the name? What is its' function? Turn on your favorite song and watch your robot groove! Take a video or picture of your robot and ask your parents to help you share using the links below. Give yourself a robo-pat on the back for a job well done!





THANK YOU

QUESTIONS?

EMAIL:

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HELP TEXT:

714-510-2572

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