

## **HARBOR FREIGHT** TOOLS FOR SCHOOLS

### **What is a Project Playbook?**

We invite you to think of this Project Playbook as a guide to assist teachers and engage students in a hands-on learning experience using tools.

Participants will create, communicate, and collaborate to solve a problem that has an impact beyond a single skilled trades classroom.

This school project was made possible by support/funding from Harbor Freight Tools For Schools.

# Go Ollie Go!



## Project Playbook

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[Click Preview](#)

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CHALLENGE

EXPLAIN

APPLY

SHARE

REFLECT

RESOURCES

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## Project Goal

There are children in communities who have challenges standing or walking. Electric wheelchairs can cost families up to \$17,000 and beyond!

We want to empower you and your skilled trades classroom to help support these children with mobile vehicles!

In this project, we will walk you through buying “off the shelf ride on electric cars” and modifying them for children with disabilities from ages 2-5 years old to use for exploration and play. The goal would be to get children with disabilities moving alongside their families and friends.

For approximately \$450 per car and a little bit of creative thinking, collaboration and problem solving, you and your skilled trades students can provide a powerful experience for a family.

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# Meet Ollie

Ollie is a 4-year old from Denver, CO, who is experiencing mobility issues. The “Go Ollie Go!” Project was built around his needs by a skilled trades teacher and student in Enumclaw, WA.



# Design Challenge

## Challenge Problem

You and your team are now the proud new owners of a “company” that designs and modifies special battery-operated vehicles for children ages 2-5 with special needs. Your personalized modifications will help children experience mobility and fun. Your custom 12-volt vehicles will encourage movement, build strength, and empower these children to soar to new heights!

## Budget:

Your team should allocate a budget of \$450 to purchase the vehicle and all the supplies needed to modify to meet the special accommodations needed to see your project go!

## Finding a Child or Family in Need:

Use a system (i.e. Google Forms) to identify students who may have a younger brother or sister or extended family member or friend in need.

[Sample Google Form Used to Identify a Family](#)

## Possible Roles of Team Members:

Family outreach, car finance and purchase, car designer and modification, digital media recorder, social media, etc.

## Potential Resources:

Your Own Teammates, Classroom space and tools, CAD Lab, Birth to Five Center, Oregon State University, University of Washington, Go Baby Go Organization, Amazon, Flipgrid, family members, etc.



# Checklists

## Part 1

- ☐ Form your “Go Ollie Go” Team
- ☐ Identify a young person with special needs who needs mobility support
- ☐ Contact the family to investigate & learn more about their needs
- ☐ Match the best vehicle to be modified for the child
- ☐ Brainstorm solutions and modifications to the vehicle that will empower the child and encourage independence, confidence, and fun

## Part 2

- ☐ Assign tasks for each member of your team
- ☐ Design & begin installing the modifications to your vehicle
- ☐ Develop a digital instruction manual that includes a description of the modifications & how they will be used to enhance the vehicle



# Project Basics

1. Planning  
The Car

2. Car Before  
Modifications

3. Brainstorm  
Modifications

4. Car  
Modifications

5. Power  
Tool Usage

6. Testing  
The Car

7. Eli's  
Communication

8. Shipping  
The Car

9. Zoom  
Collaboration

Create - Communicate - Collaborate - Solve Problems

## Meet Ollie's Team



Video of Eli's first collaboration meeting with Ollie's support team from different locations.

# Almost There

Eli made a “How To” video for Ollie’s parents to view before the vehicle arrived so they would know all about the specific features and modifications.



Here is the video of Eli loading the car in Washington for shipping to Ollie in Colorado just in time for Christmas 2020!



# The Impact



# Reflect



[Link to Self Evaluation Rubric](#)

[Link to Team Thank You Card Sample](#)



# Resource Links

[Go Baby Go Design Challenge Student Handout](#)

[Car Modifications & Suggestions](#)

[Brainstorm List of Cars](#)

[Go Ollie Go Media Clips](#)

[Empathy Leadership](#)

# You Can Do This!



# Our Core Values

- **As part of the community**, we believe deeply in the responsibility of participating and giving back.
- We want to help achieve **opportunity, justice, equality and safety for all**.
- **Humility** is the through line of our outlook and approach. We seek to make a difference, and to learn and share.
- **To leverage and propel community uplift**, we invest in those efforts, where ingenious people and ideas converge, not one or the other.
- **Continuous improvement** drives us and is central to the belief we have in our community's future. We embrace the use of data and evaluation.
- **Collaboration**. We know that durable relationships and partnerships are key to addressing vexing community challenges and opportunities.
- **Excellence in execution**. We value the need to sweat the details.
- **Balancing patience and impatience**. We bring urgency to our efforts, mindful that meaningful community change does not occur overnight.

“Effective innovations start small. They are not grandiose. They try to do one specific thing.”

— Peter F. Drucker



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