

# Guiding Inquiry Card: Hydraulic Arcade



## Workshop Overview

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### Introduction

- a. To facilitate the Introduction, you may need:
  - i. **Video 1: Introduction**

### Challenge 1: Explorations

#### Exploration 1: A-maze-ing Air and Water

- a. To facilitate this exploration, you may need:
  - i. **Video 2: A-maze-ing Air and Water**
  - ii. Observation Research Card
  - iii. Tactile hydraulic and pneumatic analogues or in-class models

#### Exploration 2: Body Systems

- b. To facilitate this exploration, you may need:
  - i. **Video 3: Body Systems**
  - ii. Observation Research Card
  - iii. Materials to develop their own body system model

### Challenge 2: Make Your Own Go-Kart Track Vehicle

- a. To facilitate this challenge, you may need:
  - i. **Video 4: Make Your Own Go-Kart Track Vehicle!**
  - ii. Observation Research Card

### Challenge 3: Share your vehicle design

- a. To facilitate this challenge, you may need:
  - a. Observation Research Card
  - b. Final Vehicle Designs