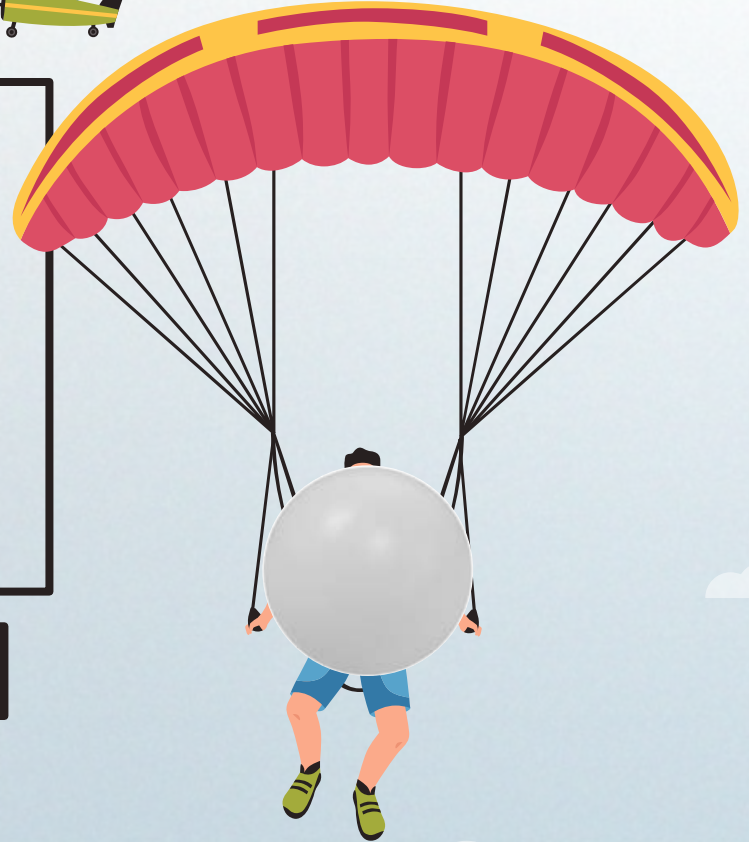


# Pong Parachut e

Montgomery Science Olympiad



# Agenda

**01**

**Event Overview**

**03**

**Construction**

**02**

**Strategies**

**04**

**Testing**



01

# Overview

Introduction to Ping Pong Parachute



# Introduction

## What is Ping Pong Parachute?

- Like the name suggests, teams will make a parachute that's attached to a ping pong ball
- The parachute will be dropped from the second floor into the lobby
- **Goal:** make a parachute that falls as slowly as possible
- The team whose parachute stays in the air for the longest wins!



# Sample Video



# Materials

- Plastic sheeting (18")
- Sewing thread (1 roll)
- Tape (2 ft)
- Ping Pong Ball (x1)



- Scissor (x1)
- Toothpick (x3)
- Marker (x1)





# Reminders

- No modifying the ping pong ball
  - Only tape can be used to secure the strings to the ball
  - No poking, denting, or otherwise changing the ball
  - No extra weight can be added to the ball
- No extra materials, so be careful
- Clean up your workspace when finished — otherwise your parachute won't be tested
- Safety first



02

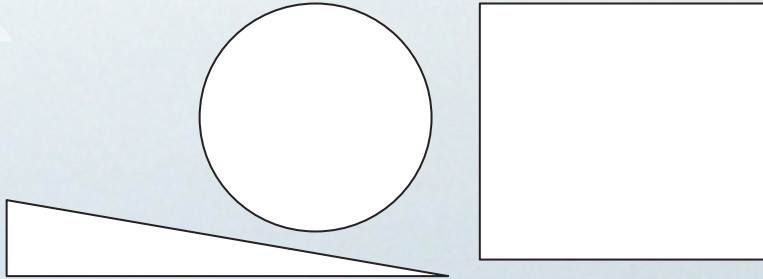
# Strategies

What makes a good parachute?



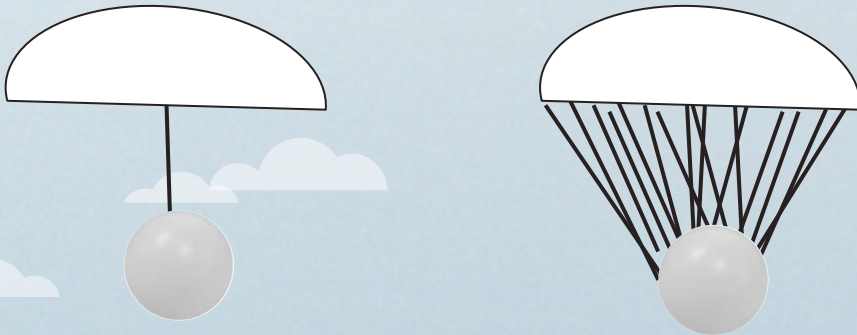
# Details to Consider

- Canopy size & shape



- Minimize tape use!

- Strings (length, number, and placement)



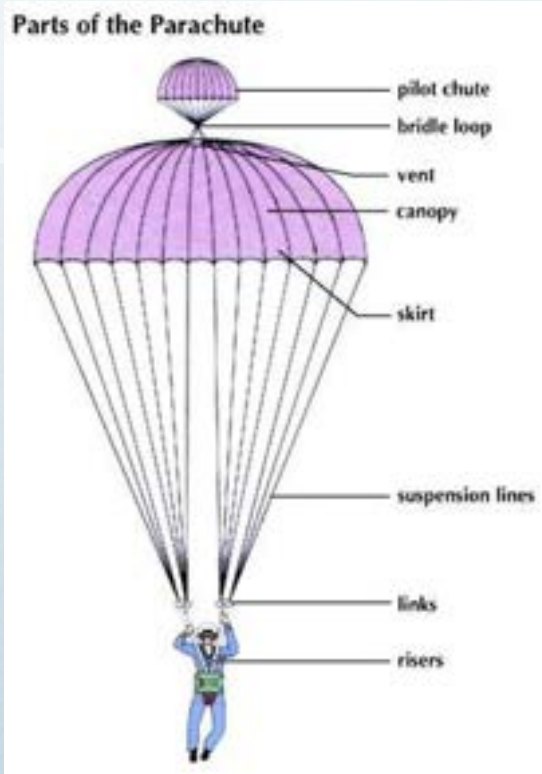
# Don't Forget a Spill Hole!



Spill holes greatly reduce rocking, making the parachute fall in a controlled manner.

Make it as small as possible! If it's too large, you're parachute will fall quickly

# Pilot Chute???



- A pilot chute is a smaller parachute on top of the main one
  - The pilot chute deploys first and stabilizes the unfolding of the main parachute
  - Commonly used in skydiving
- This is a more complex addition
  - Something to experiment with if you have time, but don't prioritize!



# Contents of this template

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<b><u>Fonts</u></b>	To view this template correctly in PowerPoint, download and install the fonts we used
<b><u>Used</u></b> and <b><u>alternative resources</u></b>	An assortment of graphic resources that are suitable for use in this presentation
<b><u>Thanks slide</u></b>	You must keep it so that proper credits for our design are given
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03

**Build Time!**

You have 5 min to plan, 25 min to build



**25:00**





04

# Testing

Let's go to the drop area!



“This is a quote, words full of wisdom  
that someone important said and can  
make the reader get inspired.”

—**Someone Famous**

# Our teaching method

## Methods

### Activities

- Mars is actually a cold place
- Uranus is one of the ice giants

### Goals

- Mercury is quite a small planet
- Venus has a beautiful name

### Feedback

- Earth is a planet that has life
- Saturn has several rings

### Assessment

- Jupiter is an enormous planet
- Neptune is very far from the Sun





# What sets us apart?

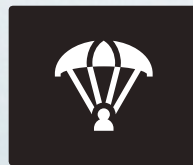


## Mercury

Mercury is the closest planet to the Sun and the smallest of them all

## Venus

Venus has a beautiful name and is the second planet from the Sun



## Mars

Despite being red, Mars is actually a cold place. It's full of iron oxide dust

# The curriculum

## Introduction

Despite being red, Mars is actually a cold place. It's full of iron oxide dust

2XXX

Venus is a hot planet

2XXX

Mercury is very small

2XXX

Neptune is an ice giant

2XXX

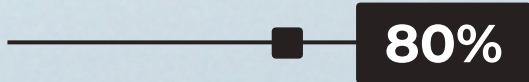
Saturn has several rings

## Features

Venus



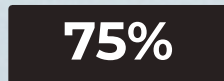
Mercury



Mercury



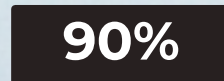
## Advantages



Pluto



Ceres



Earth

# Our academic areas

**01**

## Neptune

Despite being red, Mars is a very cold planet

**02**

## Venus

Venus is the second planet from the Sun

**03**

## Mercury

Neptune is the farthest planet from the Sun

**04**

## Jupiter

Mercury is the closest planet to the Sun

**05**

## Mars

Saturn is a gas giant with several rings

**06**

## Saturn

Jupiter is the biggest planet of them all



# Our mission and vision



## Mission

Mercury is the closest planet to the Sun and the smallest one in the Solar System—it's only a bit larger than the Moon



## Vision

Venus has a beautiful name and is the second planet from the Sun. It's hot and has a poisonous atmosphere



# Our values

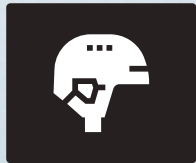


## Mars

Despite being red, Mars is actually a cold place

## Earth

Earth is the third planet from the Sun



## Jupiter

Jupiter is the biggest planet in the Solar System

## Saturn

Mercury is the closest planet to the Sun



# Our success

80%



## Mercury

Mercury is the closest planet to the Sun and the smallest of them all

60%



## Venus

Venus has a beautiful name and is the second planet from the Sun

90%



## Mars

Despite being red, Mars is actually a cold place. It's full of iron oxide dust



# 98,300,000

Big numbers catch your audience's attention





**Awesome**  
words

**A picture is worth a thousand words**





# **A picture always reinforces the concept**

Images reveal large amounts of data, so remember: use an image instead of a long text. Your audience will appreciate it for sure



# Statistics



**Neptune**

Neptune is far from the Sun

**70%**

**Venus**

Venus has a beautiful name

**75%**

**Mercury**

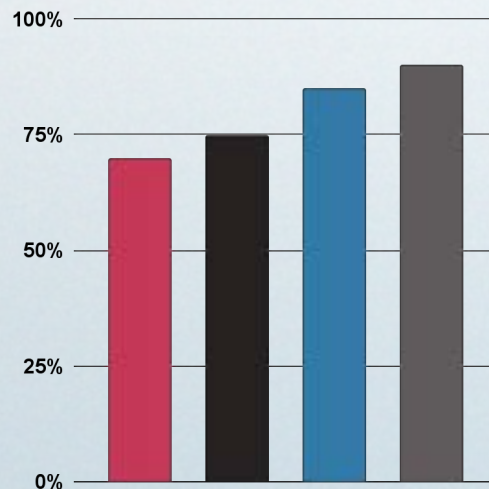
Mercury is a small planet

**85%**

**Mars**

Mars is actually a cold place

**90%**



Follow the link in the graph to modify its data and then paste the new one here. [For more info, click here](#)

# This is a map



## Jupiter

Jupiter is a gas giant and the biggest planet in the Solar System



## Neptune

Mercury is the closest planet to the Sun and the smallest one



# Mockups

You can replace the images on the screen with your own work. Just right-click on them and select “Replace image”



# Our teachers



**Mike Hill**

You can speak a bit about  
this person here



**Kaliyah Harris**

You can speak a bit about  
this person here

# Our goals

Objectives	Description
<b>Academic success</b>	<ul style="list-style-type: none"><li>• Mercury is the closest planet to the Sun</li></ul>
	<ul style="list-style-type: none"><li>• Mars is actually a very cold place</li></ul>
<b>Community</b>	<ul style="list-style-type: none"><li>• Venus is the second planet from the Sun</li></ul>
	<ul style="list-style-type: none"><li>• Jupiter is the biggest planet of them all</li></ul>
<b>Diversity</b>	<ul style="list-style-type: none"><li>• Saturn is composed of hydrogen and helium</li></ul>
	<ul style="list-style-type: none"><li>• Neptune is the farthest planet from the Sun</li></ul>





# Student progress

**1st term**

**Venus**

Venus is the second planet from the Sun

**2nd term**

**Mercury**

Mercury is the smallest planet in the Solar System

**3rd term**

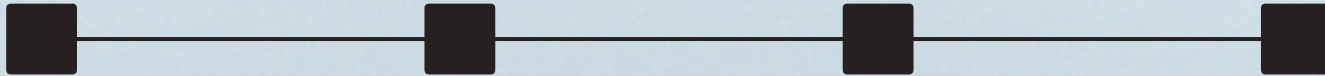
**Uranus**

Uranus is the seventh planet from the Sun

**4th term**

**Jupiter**

Jupiter is the biggest planet in the Solar System



# Enrollment process

Earth is the third planet  
from the Sun

**Earth**

**01**

Mercury is the closest  
planet to the Sun

**Mercury**

**03**

Venus is the second  
planet from the Sun

**Venus**

**05**

**02**

**Jupiter**

Jupiter is the fifth planet  
from the Sun

**04**

**Uranus**

Uranus is the seventh  
planet from the Sun





## Special reminders

Do you know what helps you make your point clear?  
Lists like this one:

- They're simple
- You can organize your ideas clearly
- You'll never forget to buy milk!

And the most important thing: the audience won't miss  
the point of your presentation





# Thanks!

Do you have any questions?

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[yourwebsite.com](http://yourwebsite.com)



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# Icon pack



# Alternative resources

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## Vectors

- [Skydiving amd extreme sports set](#)
- [Aircraft icons set flat](#)





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- [Smiley woman posing by the lake](#)

## Vectors

- [Para jumping illustration](#)
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- [Aircraft icons set flat](#)

## Icons

- [Icon Pack: Extreme Sports | Filled](#)

