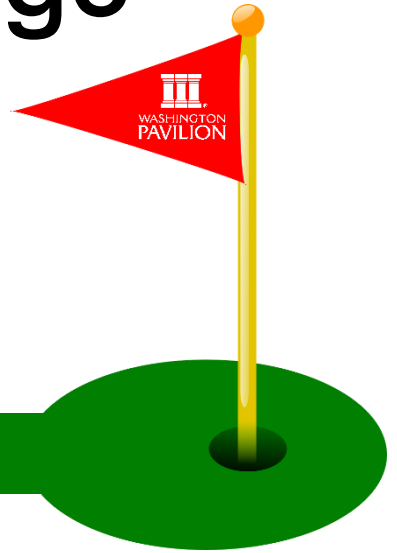


# 2019 Design Challenge

## PAVILION MINI GOLF TO GO

Saturday, April 27, 2019  
at the Washington Pavilion



### Challenge

Join us for the Washington Pavilion Design Challenge 2019, where teams are challenged to design and create a playable hole for a mini golf course.

### How to Get Involved

- Participation is as simple as registering to let us know you're in! Anyone is eligible to register a team – schools, community groups, and families are all welcome.
- Fill out the attached **registration form** and submit it to the Washington Pavilion by **April 8, 2019**.

### Age Categories

K-2<sup>nd</sup> . 3<sup>rd</sup>-5<sup>th</sup> . 6<sup>th</sup>-8<sup>th</sup> . 9<sup>th</sup>-12<sup>th</sup>

Teams with members that span multiple age groups will be placed according to its oldest members.

### Team Size

Teams should have at least 2 and up to 5 individuals.

### Cost

Free! There is no cost to participate in Design Challenge.  
Cost of additional materials should not exceed \$10.



Thank you to our in-kind sponsors!



# PAR FOR THE COURSE:



- Gather your team and come up with a team name – decide if you will wear costumes as part of your presentation
- Register your team
- Mini golf hole development – See the fine print section for details
  - Choose a theme for your mini golf hole
  - Determine which physics based components you will use
  - Determine the par for your hole
- Gather materials
  - Use everyday objects and materials from home
  - Don't spend more than \$10 (list materials purchased and their costs or source in a journal)
- Create a journal to document your process throughout this challenge
- Practice your presentation



- Come to the Washington Pavilion for Design Challenge on April 27, 2019
- Check in
- Set up your display and present your mini golf hole and journal to the judges at the designated time, including playing your hole
- Judge teams will play your mini golf hole with the goal of being at or under par
- Other Design Challenge participants will also play your hole
- Awards, prizes and cookies!

# THE FINE PRINT

(For Team Leaders and Parents)

## Development and Construction

Design and create a mini golf hole that is no wider than 4 ft and between 8 and 16 ft long. Your mini golf hole must be easily transportable and fit through a standard door. Your mini golf hole should incorporate physics-based components from the list below and should be constructed using everyday objects and materials from home. Please don't spend more than \$10 on additional materials.

Required physics based component	K-2 <sup>nd</sup>	3 <sup>rd</sup> -5 <sup>th</sup>	6 <sup>th</sup> -8 <sup>th</sup>	9 <sup>th</sup> -12 <sup>th</sup>
<b>Force</b> (choose from these options) <ul style="list-style-type: none"><li>• Hills</li><li>• Drops</li><li>• Loops</li><li>• Banks</li><li>• Surface material</li></ul>	2 total	4 total	6 total	8 total
<b>Precision</b> (choose from these options) <ul style="list-style-type: none"><li>• Curves</li><li>• Tunnels</li><li>• Road blocks (i.e. windmill)</li><li>• Banks</li><li>• Hops</li></ul>	1 total	2 total	4 total	6 total
<b>Timing</b> (Obstacle that requires the player to time their shot correctly in order to move the ball forward – i.e. windmill or swinging arm)			1 total	1 total

## Safety

The safety of all team members and participants should be the first priority. The use of fire, dry ice, fog machine, non-household chemicals of any kind, or any other hazardous materials in the creation or testing of your mini golf hole is strictly prohibited.

## Presentation and Journal

Each team must document the development and construction process in a journal. This can be done in a variety of ways – PowerPoint slideshow, photo display, video diary, notebook...it's up to you! Just be sure it lists your materials and explains each stage of the design, construction and testing process.

Teams will have 5 minutes to present their mini golf hole to the judges and answer any questions they might have.

Creativity in the journal and presentation is **strongly** encouraged, and points will be awarded for creativity. Have fun!

## Demonstration and Functionality

Each mini golf hole will be played by 3 sets of judges: 1) judge and "golf pro," 2) the team's own members and 3) select members of other Design Challenge teams.

# Design Challenge Registration Form

Each team should fill out this form and return it via email or regular mail to the Washington Pavilion by April 8, 2019. Please print or type.

**Team Name:** \_\_\_\_\_

Age Category:  K-2<sup>nd</sup>  3<sup>rd</sup>-5<sup>th</sup>  6<sup>th</sup>-8<sup>th</sup>  9<sup>th</sup>-12<sup>th</sup> Dimensions of mini golf hole 4 ft x \_\_\_\_\_ ft

## Individual Team Members (2-5 permitted)

1. Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Age: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Parent Email: \_\_\_\_\_

2. Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Age: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Parent Email: \_\_\_\_\_

3. Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Age: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Parent Email: \_\_\_\_\_

4. Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Age: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Parent Email: \_\_\_\_\_

5. Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Age: \_\_\_\_\_

Parent Name: \_\_\_\_\_ Parent Email: \_\_\_\_\_

## Adult Team Leader Info

Name: \_\_\_\_\_

Email: \_\_\_\_\_

Phone Number (for day of event): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

**Media:** Please note that unless otherwise indicated, the Washington Pavilion of Arts and Science may use names and photographs of students at the Design Challenge event for future publications, promotional materials (print and online) or educational materials. Please contact us if you have questions or concerns.

See you Saturday, April 27, 2019 at the Washington Pavilion!

## Return Form

**Email** CLC@washingtonpavilion.org  
**Mail** Washington Pavilion • Attn: CLC  
301 S. Main Ave. | Sioux Falls, SD 57104  
**Deadline** April 8, 2019

**Questions?**  
Contact us at 605-731-2374 or  
CLC@washingtonpavilion.org

