2021 HRSD BALLOON CAR SHOWCASE

The purpose of HRSD's Balloon Car Challenge is to spread the word about engineering, engage with the community, and have fun.

Engineers apply science and math to understand how things work, to solve problems and to create practical uses for scientific discoveries. We all share the planet earth and must use the earth's limited resources efficiently and sustainably. In the case of HRSD, we apply engineering principles to protect public health and our local waters by conveying and treating the used water from our region's homes and businesses. HRSD relies on civil, mechanical, electrical, chemical, process, and computer engineers to do this; we are looking for the next generation of engineers to help ensure that future generations inherit clean water and have the resources necessary to keep it clean.

The Task:

You are an engineer that must design, construct, demonstrate and market a car powered by a balloon.

Questions to Consider:

One important skill of engineers is the ability to ask good questions; good questions lead to the development of good solutions.

- How is your balloon car sustainable?
- How did you balance form (looks) and function (performance)?
- What environment will the balloon car be operated in?
- What performance parameters are important?
- How will the car be marketed?

This challenge is designed to put individuals in the shoes of engineers. Sometimes the best engineering ideas do not get implemented; implementation often takes a great design and a great sell of that design. One important skill of engineers is the ability to ask good questions; good questions lead to the development of good solutions.

Showcase:

All videos submitted will be put on HRSD's YouTube page and shared via HRSD's Facebook page for public viewing.

Submittals:

- 1) Video clip showing your BALLOON CAR IN ACTION
- Video or voice over of your CAR COMMERCIAL (narrative of why your car is good/why you designed the car the way you did)
 - For help developing your commercial please look to "Questions to Consider"

All submittals shall be uploaded by March 12, 2021:

STEP 1: Please e-mail a completed 2021 HRSD Balloon Car Challenge Form to jdano@hrsd.com

STEP 2: Upload your submittal using the link that will be sent to your e-mail

2021 HRSD Balloon Car Showcase Form

Media Release (Intellectual Property Release Agreement)

Participants must complete and submit the application form and Media Release (Intellectual Property Release Agreement) and photo/video no later than Thursday, March 11, 2021 in digital form to jdano@hrsd.com. For entrants under 18, parents must sign the Media Release (Intellectual Property Release Agreement) for their child to enter the contest.

Contestant Name:		
Contestant Email Address (Required – will use for DropBox	: link):	
If child under 18 years of age: School:	Grade:	Age:
Parent/Guardian Name:		-
Parent/Guardian Phone Number:	Parent/Guardian Email:	
Photo/Video Property Release Agreement		
WHEREAS, New Rights Holder wishes to acquire such right, of the promises and covenants contained herein, as well as which is hereby acknowledged), the Parties do hereby agree does accept, the absolute and unconditional right to reproduce work, as applicable. Creator does not hold any remaining rexploit the Work belongs exclusively to New Rights Hold. Refis the exclusive holder of any rights in and to the work, and interest in and to said work. Creator additionally warrants Holder unconditional and unlimited use of the work.	to ther good and valuable considerate as follows: Release: Creator hereby duce, prepare derivative works, distriction and to the Work, and the undepresentations: Creator hereby reproduced that no other individual or entity mathat Creator has all necessary rights	tion (the receipt and sufficiency of y releases, and New Rights Holder ibute, perform, and/or display the aconditional ability to use and esents and warrants that Creator ay claim any rights, title, an/or required to grant New Rights
I agree to the terms and conditions of the agreement and	understand the guidelines of the cor	ntest:
Contestant Signature:	Date:	
Parent Signatura:	Dato	

Release Form Deadline: Thursday, March 11, 2021

Sent to jdano@hrsd.com