

Hovercraft Challenge

Name: _____

Challenge - Distance

How far can you make your hovercraft travel before it stops on its own? Try three times.

First Run Distance in cm	Second Run Distance in cm	Third Run Distance in cm	Average Distance in cm

What did you do to try to increase your distance? Did it work?

Challenge - Time

How long can you make your hovercraft hover before it comes to a rest on its own? Try three times.

First Run in seconds	Second Run in seconds	Third Run in seconds	Average Time in seconds

What did you do to try to increase your time? Did it work?

Challenge - Speed

How fast can you make your hovercraft move? Measure distance and time. Try three times.

First Run	Second Run	Third Run
cm sec	cm sec	cm sec

$$\text{Speed} = \frac{\text{distance}}{\text{time}} = \text{___ cm/sec}$$

First Run speed in cm/sec	Second Run speed in cm/sec	Third Run speed in cm/sec	Average Speed in cm/sec

What did you do to try to increase your speed? Did it work?

Hovercraft Challenge

Name: _____

Create an Olympic sport for your

Challenge others to compete
for the Interplanetary cup.



Describe your sport:

- What is its objective?
- What happens when you play your sport?
- What does your playing field look like?
- How many teams compete?

What are the rules:

How is the game scored:

How do Isaac Newton's Laws of Motion apply to your sport?
Could your sport be played on the International Space Station? On the moon? On Mars?

Use the other side of this page for your answers.