

## Balloon Car Design Activity

### Student Documentation for Project and Process

Suggested prompts for Step 5 - Observe, Improve, Iterate

Balloon Car Design Project Documentation	
Describe or create a simple labeled sketch of the balloon car and cargo.	
<p>Does the design meet the required criteria and constraints?</p> <ul style="list-style-type: none"> <li>• Is the balloon car complete?</li> <li>• Do the wheels roll freely?</li> <li>• Does the car roll straight?</li> <li>• Does the car carry the desired cargo and not drop it?</li> <li>• Does the car reach the target?</li> </ul>	
What are some of the physical principles you are learning about, and how do they connect to this activity? What is something that surprised you during your experimentation?	
What is something that surprised or challenged you during your experimentation? How did you work through it?	
Describe something that you want to improve on, or a problem you cannot yet understand	

## Suggested prompts for Step 6 - Reflect

<b>Balloon Car Design Project and Process Documentation</b>	
Describe or create a simple labeled sketch of the balloon car and cargo.	
<p>Did the balloon car perform as you expected?</p> <ul style="list-style-type: none"> <li>● Is the balloon car complete?</li> <li>● Did the wheels roll freely, the balloon deflate properly, the cargo stay on, and the car reach the target?</li> <li>● Did the balloon car meet the challenges it was designed for?</li> </ul>	
What are some of the physical principles you are learning about, and how do they connect to this activity? What is something that surprised you during your experimentation?	
What is something that surprised or challenged you in creating the balloon car? How did you work through it?	
Describe the process you used to design the balloon car.	
Explain something that you liked about the design process.	