

Astronomy

A Long Way Down: Designing Parachutes

TEACHER RESOURCE

Solar System 101

This website from NASA includes detailed information about the planets, including images of each planet and a 3D interactive, "Eyes on the Solar System."

<http://solarsystem.nasa.gov/kids/>

IMAGES AND VISUALIZATIONS

MSL Parachute Testing

NASA's photos and video show how a parachute that will land a rover on Mars is tested inside the world's largest wind tunnel. This is the largest parachute ever built to fly on an extraterrestrial mission.

http://www.nasa.gov/centers/ames/research/msl_parachute.html

VIDEO FOR STUDENTS

Scientist Profile: Aeronautical Engineer

This video clip from Dragonfly TV follows aeronautical engineer David Urie through the design process as he imagines, plans, creates, and tests a body surfboard for parachute jumpers. (3:36)

<http://pbskids.org/dragonflytv/scientists/scientist5.html#scientist5html>

STUDENT RESOURCE

How Forces Affect a Skydiver

In this brief video from the United Kingdom's General Certificate of Secondary Education (GCSE) Science Revision, we see how forces affect a skydiver. The video focuses on the relationship between gravity and air resistance. (3:39)

<https://www.youtube.com/watch?v=io-6uYOQK6A>

Science of Swimming

This *TIME for Kids* article shows how Olympic swimmer Missy Franklin uses her body and technique to fight against drag forces in the pool. The video is part of the "Science of the Summer Olympic Games: Engineering in Sports" video series from NBC Learn, the educational division of NBC News. (4:59)

<http://www.timeforkids.com/news/science-swimming/42826>