



Secondary School

Experiments with Free Fall – ISB Students Research Weightlessness

For the past few months, a group of ISB Science students has swapped their classroom for a laboratory in Bremen's Drop Tower at the University's Centre of Applied Space Technology and Microgravity (ZARM – Zentrum für angewandte Raumfahrttechnologie und Mikrogravitation). Along with a small group of other students from Bremen schools, our students developed two experiments on how various fluids react in the weightlessness of space. On 2 March, these experiments will be tested.

The students qualified for this project last spring by submitting creative concepts. The project focuses not only on basic scientific knowledge, but also on finding solutions to problems in a structured, team-based manner.



Supported by ZARM scientists and engineers, our students researched how fluids react in their passage from normal gravity to zero gravity.

After much planning and preparation, the school project “DroPS” (Drop Tower Project for School Students) is now reaching its final phase, a time which the students have long awaited. They will integrate their experiments into a capsule which will fall from a height of 120 metres into the deceleration tank. Our young researchers will follow the reaction of the fluids live on the control centre's screen.



