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School in Space - Kids become space scientists

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Thomas Reiter will be conducting experiments alongside school pupils in the coming weeks. Together they will observe the behaviour of water/oil emulsion both on the ISS orbiting in space and, at the same time, on Earth. DLR and TV channel ZDF's "tivi" programme call on schools to take part.

Pupils research alongside astronaut Thomas Reiter



Junior researchers swap notes

In September 2006, school pupils will have the opportunity to carry out scientific research with ESA astronaut Thomas Reiter.

Reiter is carrying out the same experiment in space as pupils are performing in class. DLR's Space Agency developed a special instrument for this educational experiment as part of the ESA mission Astrolab.

The experiment centres around a twin Plexiglass cuboid containing a water/oil mixture (emulsion) and is easy to reproduce in the classroom. After the emulsion has been shaken up, the children can observe how the water and oil first mix together and then separate again. They then have to formulate a hypothesis as to how the emulsion would behave in zero gravity and give a reason for their theory.

The Plexiglass cuboid was transported to the International Space Station on 24 June 2006 by the Russian cargo ship Progress M-57, along with other supplies. The US Space Shuttle Discovery, which carried Thomas Reiter to the ISS to take up his role as the third permanent crew member brought the experiment safely to the experimenter.



DLR, ESA and ZDF want to inspire pupils

During September 2006, the 'Oil Emulsion' experiment will be carried out in schools throughout Germany. ZDF tivi, a show for children and teenagers broadcast by German channel and official media partner Zweite Deutsche Fernsehen (ZDF), will be broadcasting coverage of the experiment. ZDF tivi will be reporting on programmes like the children's news programme logo! Viewers can watch the result of the experiment, including Thomas Reiter's own video recordings in space, on ZDF tivi on 23 September 2006. Then all the school pupils involved can see whether their hypothesis was right.

If you would like to take part in the experiment, you can find more information at <http://www.school-in-space.de/>. Back in June, teachers at all secondary schools in Germany received the necessary material for carrying out the experiment in class and a unique code for each school to access the teachers' pages at <http://www.school-in-space.de/>.

Contact

DLR Corporate Communications

Tel: +49 2203 601-2116

Fax: +49 2203 601-3249

E-Mail: kommunikation@dlr.de

Dr. Hartmut Ripken

German Aerospace Center

Space Administration, Human Spaceflight, ISS and Exploration

Tel: +49 228 447-203

Fax: +49 228 447-737

E-Mail: Hartmut.Ripken@dlr.de

Contact details for image and video enquiries as well as information regarding DLR's terms of use can be found on the DLR portal imprint.